

MONOSAN[®] *Xtra*



ANTIBODY PRODUCT GUIDE



Introduction

MONOSAN® is a brand name of Sanbio b.v. in the Netherlands, established in 1978. In 1979 we sold the first MONOSAN® Anti-Rat T-cell monoclonal antibody and over the last 30 years the range of antibodies we offer to the research community has tremendously increased.

The close cooperation between many worldwide leading Universities and research Institutes and our company Sanbio b.v. enables us to present a complete range of antibodies covering the main areas of research. The MONOSAN® antibodies are of high standard quality and developed, produced and commercialized under an ISO 9001:2000 system.

At this moment the MONOSAN® range is marketed and sold worldwide through a network of approved and service-conscious suppliers. We are currently represented in more than 50 countries worldwide. The products are also supplied in commercial OEM quantities and formats to international life science and healthcare companies as raw materials for their own diagnostic products.

The MONOSAN® range has grown to 2.500 products when we included MONOSAN® Xtra in 2002. MONOSAN® Xtra is a unique addendum to our regular MONOSAN® product line. The range contains over 1.200 antibodies, mainly manufactured for immunohistochemical (IHC) use on FFPE tissue sections.

A complete selection of these specific MONOSAN® Xtra products are brought together in this catalogue. The antibodies are divided into their key area by chapter. In the different chapters you can find more detailed information regarding the applications and specifications. The datasheets are available at our MONOSAN® webpage: www.monosan.com.



For more detailed information we kindly invite you to send us an e-mail, fax or give us a call.

Monosan® Xtra
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Antibodies for research in the following areas:

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Abbreviations

F =	Frozen sections (IHC)
P =	Paraffin sections (IHC)
WB =	Western blotting
C =	Flow cytometry
E =	ELISA
IF =	Immunofluorescence
EM =	Electron Microscopy
O =	Other applications

All antibodies are reactive with human antigens, unless stated otherwise.

Cell Adhesion Molecules

Specificity	Clone	Application	Dilution in IHC	Format	Unit	Cat.#
CD62E (E-selectin)	16G4	P	1:25 - 1:50	Lyophilised	1 ml	MONX10824
CD62L (L-selectin)	9H6	P	1:25 - 1:50	Lyophilised	1 ml	MONX10826
CD62 P (P-selectin)	C34	P	1:50 - 1:100	Lyophilised	1 ml	MONX10828
CD2 (LFA-2)	AB75	P	1:40 - 1:80	Lyophilised	1 ml	MONX10830
CD2 (LFA-2)	AB75	P	1:40 - 1:80	Liquid	1 ml	MONX10831
CD2 (LFA-2)	AB75	P	neat	Ready-to-use	7 ml	MONX10832
CD31 (PECAM-1)	HC1/6	F	1:100 - 1:200	Lyophilised	1 ml	MONX10837
CD31 (PECAM-1)	1A10	P	1:50 - 1:100	Lyophilised	1 ml	MONX10838
CD48	9E5	P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10839
CD54 (ICAM-1)	23G12	P	1:25 - 1:50	Lyophilised	1 ml	MONX10841
CD56 (NCAM)	CD564	P	see datasheet	Lyophilised	1 ml	MONX10843
CD56 (NCAM)	1B6	P, WB	1:50 - 1:100	Lyophilised	1 ml	MONX10844
CD56 (NCAM)	1B6	P, WB	1:50 - 1:100	Liquid	1 ml	MONX10845
CD56 (NCAM)	1B6	P	neat	Ready-to-use	7 ml	MONX10846
CD66a (CEACAM1)	29H2	P	1:50 - 1:100	Lyophilised	1 ml	MONX10850
CD83	1H4b	P	1:20 - 1:40	Lyophilised	1 ml	MONX10851
CD106 (VCAM-1)	14C3	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10852
CD146 (MCAM)	N1238	P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10854
CD147 (EMMPRIN)	AB1843	P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10855
CDw150 (SLAM)	SJR22	P	1:20 - 1:40	Lyophilised	1 ml	MONX10856
CD166 (ALCAM)	MOG/07	P	1:40 - 1:80	Lyophilised	1 ml	MONX10857
Lymphocyte Activation Gene-3 Protein	12H6	P	1:50 - 1:100	Lyophilised	1 ml	MONX10858
CD49b (VLA-2)	AK7	F	1:50	Lyophilised	1 ml	MONX10859
CD49c (VLA-3)	VM-2	F	1:50 - 1:100	Lyophilised	1 ml	MONX10861
CD49f (VLA-6)	4F10	F	1:100	Lyophilised	1 ml	MONX10862
CD29	7F10	P	1:20 - 1:40	Lyophilised	1 ml	MONX10864
CD11b (Mac-1)	44	F	1:100	Lyophilised	1 ml	MONX10865
CD41 (GPIIb/IIIa)	M148	F	1:100	Lyophilised	1 ml	MONX10867
CD61 (GPIIIa)	2f2	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10868
CD104	ELF1	P	1:25 - 1:50	Lyophilised	1 ml	MONX10870
Alpha-Catenin	25B1	F, P, WB	1:50	Lyophilised	1 ml	MONX10871
Beta-Catenin	17C2	F, P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10872
Gamma-Catenin	11B6	F, P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10873
CD42b (GPIb)	MM2/174	F, P	1:100	Lyophilised	1 ml	MONX10875
CD44 (H-CAM)	DF1485	F, P	1:40 - 1:80	Lyophilised	1 ml	MONX10877
CD44 (variant 3)	VFF-327v3	F, P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10878
CD44 (variant 5)	VFF-8	F, P	1:100 - 1:200	Lyophilised	1 ml	MONX10880
CD44 (variant 6)	VFF-7	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10881
E-Cadherin	36B5	P	1:25 - 1:50	Lyophilised	1 ml	MONX10882
E-Cadherin	36B5	P	neat	Ready-to-use	7 ml	MONX10883
P-Cadherin	56C1	F, P, WB	1:50 - 1:100	Lyophilised	1 ml	MONX10885
P-Cadherin	56C1	F, P, WB	1:50 - 1:100	Liquid	1 ml	MONX10886

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Cluster Differentiation Markers

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
CD1a	MTB1	F, P	1:15 - 1:30	Lyophilised	1 ml	MONX10315
CD1a	MTB1	F, P	1:15 - 1:30	Liquid	1 ml	MONX10316
CD1a	MTB1	F, P	neat	Ready-to-use	7 ml	MONX10317
CD1a	JPM30	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10319
CD2 (LFA-2)	AB75	P	1:40 - 1:80	Lyophilised	1 ml	MONX10830
CD2 (LFA-2)	AB75	P	1:40 - 1:80	Liquid	1 ml	MONX10831
CD2 (LFA-2)	AB75	P	neat	Ready-to-use	7 ml	MONX10832
CD3	LN10	P	1:200	Liquid	1 ml	MONX11071
CD3	PS1	P	1:100 - 1:200	Lyophilised	1 ml	MONX10320
CD3	PS1	P	1:100 - 1:200	Liquid	1 ml	MONX10321
CD3	PS1	P	neat	Ready-to-use	7 ml	MONX10322
CD3	UCHT1	F, C	1:100 - 1:200	Lyophilised	1 ml	MONX10325
CD4	4B12	F, P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10326
CD4	4B12	F, P, WB	1:20 - 1:40	Liquid	1 ml	MONX10327
CD4	1F6	P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10328
CD4	1F6	P, WB	1:20 - 1:40	Liquid	1 ml	MONX10329
CD4	1F6	P	neat	Ready-to-use	7 ml	MONX10330
CD4 & CD8 (duo pack)	1F6 & 4B11	P, WB & F, P, WB	1:20 - 1:40	Lyophilised	2 x 0.5 ml	MONX10333
CD5	4C7	P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10334
CD5	4C7	P, WB	1:25 - 1:50	Liquid	1 ml	MONX10335
CD5	4C7	P	neat	Ready-to-use	7 ml	MONX10336
CD6	23	P	1:100 - 1:200	Lyophilised	1 ml	MONX10340
CD7	CD7-272	P	1:50 - 1:100	Lyophilised	1 ml	MONX10342
CD7	CD7-272	P	1:50 - 1:100	Liquid	1 ml	MONX10343
CD8	1A5	F, P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10346
CD8	1A5	F, P, WB	1:20 - 1:40	Liquid	1 ml	MONX10347
CD8	1A5	F, P	neat	Ready-to-use	7 ml	MONX10348
CD8	4B11	F, P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10350
CD9	72F6	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10352
CD10	56C6	F, P, WB	1:80	Lyophilised	1 ml	MONX10353
CD10	56C6	F, P, WB	1:80	Liquid	1 ml	MONX10354
CD10	56C6	F, P	neat	Ready-to-use	7 ml	MONX10355
CD11b (Mac-1)	44	F	1:100	Lyophilised	1 ml	MONX10865
CD13	38C12	P	1:40 - 1:80	Lyophilised	1 ml	MONX10358
CD14	7	P, WB	1:50 - 1:100	Lyophilised	1 ml	MONX10360
CD14	7	P, WB	1:50 - 1:100	Liquid	1 ml	MONX10361
CD15	BY87	F, P	1:20	Lyophilised	1 ml	MONX10363
CD15	BY87	F, P	1:20	Liquid	1 ml	MONX10364
CD15	BY87	F, P	neat	Ready-to-use	7 ml	MONX10365
CD16	2H7	P	1:20 - 1:40	Lyophilised	1 ml	MONX10367
CD19	4G7/2E	F, C	1:100 - 1:200	Lyophilised	1 ml	MONX10368
CD20	L26	F, P, WB	1:200 - 1:400	Lyophilised	1 ml	MONX10369
CD20	L26	F, P, WB	1:200 - 1:400	Liquid	1 ml	MONX10370
CD20	L26	F, P	neat	Ready-to-use	7 ml	MONX10371
CD20	7D1	F, P, WB, C	1:100 - 1:200	Lyophilised	1 ml	MONX10373
CD20	MJ1	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10374
CD21	2G9	F, P	1:10 - 1:20	Lyophilised	1 ml	MONX10375
CD21	2G9	F, P	1:10 - 1:20	Liquid	1 ml	MONX10376
CD22	FPC1	P	1:20 - 1:40	Lyophilised	1 ml	MONX10835
CD23	1B12	F, P, C	1:20 - 1:40	Lyophilised	1 ml	MONX10377
CD23	1B12	F, P, C	1:20 - 1:40	Liquid	1 ml	MONX10378
CD23	1B12	F, P	neat	Ready-to-use	7 ml	MONX10379
CD23	Tu1	F	1:50 - 1:100	Lyophilised	1 ml	MONX10381
CD25 (Interleukin-2 Receptor)	4C9	P	1:100 - 1:200	Lyophilised	1 ml	MONX10182
CD29	7F10	P	1:20 - 1:40	Lyophilised	1 ml	MONX10864
CD30	15B3	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10383
CD30	1G12	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10384
CD30	1G12	F, P	1:20 - 1:40	Liquid	1 ml	MONX10385
CD30	1G12	F, P	neat	Ready-to-use	7 ml	MONX10386
CD31 (PECAM-1)	HC1/6	F	1:100 - 1:200	Lyophilised	1 ml	MONX10837
CD34 (Endothelial Cell Marker)	QBEnd/10	F, P, C	1:50	Lyophilised	1 ml	MONX10470
CD34 (Endothelial Cell Marker)	QBEnd/10	F, P, C	1:50	Liquid	1 ml	MONX10471
CD34 (Endothelial Cell Marker)	QBEnd/10	F, P	neat	Ready-to-use	7 ml	MONX10472
CD35	RLB25	F, P	1:40 - 1:80	Lyophilised	1 ml	MONX10388
CD37	CT1	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10389
CD38	SPC32	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10390
CD38	SPC32	F, P	1:50 - 1:100	Liquid	1 ml	MONX10391
CD39	22A9	P	1:25 - 1:50	Lyophilised	1 ml	MONX10393
CD40	11E9	P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10394

Cluster Differentiation Markers

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
CD41 (GPIIb/IIIa)	M148	F	1:100	Lyophilised	1 ml	MONX10867
CD42b (GPIb)	MM2/174	F, P	1:100	Lyophilised	1 ml	MONX10875
CD43	DFT1	F, P	1:50	Lyophilised	1 ml	MONX10395
CD43	MT1	F, P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10396
CD43	MT1	F, P, WB	1:20 - 1:40	Liquid	1 ml	MONX10397
CD43	MT1	F, P	neat	Ready-to-use	7 ml	MONX10398
CD44 (H-CAM)	DF1485	F, P	1:40 - 1:80	Lyophilised	1 ml	MONX10877
CD44 Variant 3	VFF-327v3	F, P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10878
CD44 Variant 5	VFF-8	F, P	1:100 - 1:200	Lyophilised	1 ml	MONX10880
CD44 Variant 6	VFF-7	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10881
CD45	X16/99	P, C	1:20	Lyophilised	1 ml	MONX10400
CD45	RP2/18 & RP2/22	F, P	1:100	Lyophilised	1 ml	MONX10401
CD45	RP2/18 & RP2/22	F, P	1:100	Liquid	1 ml	MONX10402
CD45	RP2/18 & RP2/22	F, P	neat	Ready-to-use	7 ml	MONX10403
CD45RA	X148	F, P, C	1:25	Lyophilised	1 ml	MONX10405
CD45RB	MEM55	F, P	1:25 - 1:50	Lyophilised	1 ml	MONX10407
CD45RO	UCHL1	F, P, C	1:100 - 1:200	Lyophilised	1 ml	MONX10408
CD45RO	UCHL1	F, P, C	1:100 - 1:200	Liquid	1 ml	MONX10409
CD45RO	UCHL1	F, P	neat	Ready-to-use	7 ml	MONX10410
CD48	9E5	P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10839
CD49b (VLA-2)	AK7	F	1:50	Lyophilised	1 ml	MONX10859
CD49c (VLA-3)	VM-2	F	1:50 - 1:100	Lyophilised	1 ml	MONX10861
CD49f (VLA-6)	4F10	F	1:100	Lyophilised	1 ml	MONX10862
CD54 (ICAM-1)	23G12	P	1:25 - 1:50	Lyophilised	1 ml	MONX10841
CD56 (NCAM)	CD564	P	1:50 - 1:100	Lyophilised	1 ml	MONX10843
CD56 (NCAM)	1B6	P, WB	1:50 - 1:100	Lyophilised	1 ml	MONX10844
CD56 (NCAM)	1B6	P, WB	1:50 - 1:100	Liquid	1 ml	MONX10845
CD56 (NCAM)	1B6	P	neat	Ready-to-use	7 ml	MONX10846
CD57	NK-1	F, P	1:50	Lyophilised	1 ml	MONX10412
CD57	NK-1	F, P	neat	Ready-to-use	7 ml	MONX10413
CD59	4D11	P, WB	1:50	Liquid	1 ml	MONX11083
CD61 (GPIIIa)	2F2	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10868
CD62E (E-selectin)	16G4	P	1:25 - 1:50	Lyophilised	1 ml	MONX10824
CD62L (L-selectin)	9H6	P	1:25 - 1:50	Lyophilised	1 ml	MONX10826
CD62P (P-selectin)	C34	P	1:50 - 1:100	Lyophilised	1 ml	MONX10828
CD63 (Melanoma Marker)	NKI/C3	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10503
CD66a (CEACAM1)	29H2	P	1:50 - 1:100	Lyophilised	1 ml	MONX10850
CD66e (Carcinoembryonic Antigen)	12-140-10	F, P	1:100 - 1:200	Lyophilised	1 ml	MONX10460
CD66e (Carcinoembryonic Antigen)	12-140-10	F, P	1:100 - 1:200	Liquid	1 ml	MONX10461
CD66e (Carcinoembryonic Antigen)	12-140-10	F, P	neat	Ready-to-use	7 ml	MONX10462
CD68	KP1	F, P	1:200 - 1:400	Lyophilised	1 ml	MONX10415
CD68	514H12	F, P	1:40 - 1:80	Lyophilised	1 ml	MONX10416
CD68	514H12	F, P	1:40 - 1:80	Liquid	1 ml	MONX10417
CD68	514H12	F, P	neat	Ready-to-use	7 ml	MONX10418
CD69	CH11	P	1:25 - 1:50	Lyophilised	1 ml	MONX10420
CD71	10F11	P	1:40 - 1:80	Lyophilised	1 ml	MONX10421
CD72	D748	P	1:25 - 1:50	Lyophilised	1 ml	MONX10422
CD74	LN-2	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10423
CDw75	LN-1	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10424
CD79a	11E3	F, P	1:100 - 1:200	Lyophilised	1 ml	MONX10425
CD79a	11E3	F, P	1:100 - 1:200	Liquid	1 ml	MONX10426
CD79a	11D10	F, P, C	1:50 - 1:100	Lyophilised	1 ml	MONX10427
CD79a	11D10	F, P, C	1:50 - 1:100	Liquid	1 ml	MONX10428
CD79a	11D10	F, P	neat	Ready-to-use	7 ml	MONX10429
CD79b	JS01	P	1:40	Liquid	1 ml	MONX11058
CD81	1D6	P	1:20 - 1:40	Lyophilised	1 ml	MONX10432
CD82	5B5	P	1:40 - 1:80	Lyophilised	1 ml	MONX10433
CD83	1H4b	P	1:20 - 1:40	Lyophilised	1 ml	MONX10851
CD95 (Fas)	GM30	F, P	1:40 - 1:80	Lyophilised	1 ml	MONX10278
CD99	HO36-1.1	F, P, WB	1:50	Lyophilised	1 ml	MONX10434
CD104 (L4)	ELF1	P	1:25 - 1:50	Lyophilised	1 ml	MONX10870
CD105 (Endoglin)	4G11	P	1:50 - 1:100	Lyophilised	1 ml	MONX10171
CD106 (VCAM-1)	14C3	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10852
CD117 (c-kit Oncoprotein)	T595	P	1:20 - 1:40	Lyophilised	1 ml	MONX10233
CD117 (c-kit Oncoprotein)	T595	P	1:20 - 1:40	Liquid	1 ml	MONX10234
CD117 (c-kit Oncoprotein)	T595	P	neat	Ready-to-use	7 ml	MONX10235
CD117 (c-kit Oncoprotein)	57A5D8	F	1:200 - 1:400	Lyophilised	1 ml	MONX10237
CD134 (OX40)	102H6	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10435
CD137	S16	P	1:40 - 1:80	Lyophilised	1 ml	MONX10436

Cluster Differentiation Markers

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
CD138 (Syndecan-1)	5F7	P	1:50 - 1:100	Lyophilised	1 ml	MONX10437
CD141 (Thrombomodulin)	15C8	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10438
CD146 (MCAM)	N1238	P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10854
CD147 (EMMPRIM)	AB1843	P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10855
CDw150 (SLAM)	SJR22	P	1:20 - 1:40	Lyophilised	1 ml	MONX10856
CD151 (PETA-3)	RLM30	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10442
CD154	SOP13	WB	1:50 - 1:100	Lyophilised	1 ml	MONX10443
CD162	3E2.25.5 (PL1)	F, P	1:100 - 1:200	Lyophilised	0.5 ml	MONX10444
CD163	10D6	P	1:50 - 1:100	Lyophilised	1 ml	MONX10445
CD166	MOG/07	P	1:40 - 1:80	Lyophilised	1 ml	MONX10857
CD168 (RHAMM)	2D6	P	1:50 - 1:100	Lyophilised	1 ml	MONX10446
CD179a	37A10	P	see datasheet	Lyophilised	1 ml	MONX10447
CD205 (DEC-205)	11A10	P	1:80	Liquid	1 ml	MONX11088

Cytokeratins

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
Cytokeratin 1	34_B4	F, P	1:20 - 1:40	Lyophilised	0.5 ml	MONX10667
Cytokeratin 4	6B10	F, P, WB	1:100 - 1:200	Lyophilised	0.5 ml	MONX10668
Cytokeratin 5	XM26	F, P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10669
Cytokeratin 5	XM26	F, P, WB	1:100 - 1:200	Liquid	1 ml	MONX10670
Cytokeratin 5	XM26	F, P	neat	Ready-to-use	7 ml	MONX10671
Cytokeratin 6	LHK6B	F, P, O	1:20 - 1:40	Lyophilised	1 ml	MONX10673
Cytokeratin 7	OV-TL 12/30	F, P, WB	1:50	Lyophilised	1 ml	MONX10674
Cytokeratin 7	OV-TL 12/30	F, P, WB	1:50	Lyophilised	1 ml	MONX10675
Cytokeratin 7	OV-TL 12/30	F, P	neat	Ready-to-use	7 ml	MONX10676
Cytokeratin 7	LP5K	F, P	1:5 - 1:10	Lyophilised	1 ml	MONX10678
Cytokeratin 7	RN7	P	1:100	Liquid	1 ml	MONX11059
Cytokeratin 8	TS1	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10679
Cytokeratin 8	TS1	F, P	1:50 - 1:100	Liquid	1 ml	MONX10680
Cytokeratin 8	TS1	F, P	neat	Ready-to-use	7 ml	MONX10681
Cytokeratin 10	LHP1	F, P	1:50	Lyophilised	1 ml	MONX10684
Cytokeratin 13	KS-1A3	F, P, WB	1:100 - 1:200	Lyophilised	0.5 ml	MONX10685
Cytokeratin 14	LL002	F, P	1:20	Lyophilised	1 ml	MONX10686
Cytokeratin 14	LL002	F, P	1:20	Liquid	1 ml	MONX10687
Cytokeratin 14	LL002	F, P	neat	Ready-to-use	7 ml	MONX10688
Cytokeratin 15	LHK15	F, P	1:40 - 1:80	Lyophilised	1 ml	MONX10690
Cytokeratin 16	LL025	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10691
Cytokeratin 17	E3	F, P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10692
Cytokeratin 18	DC-10	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10693
Cytokeratin 19	b170	F, P	1:100 - 1:150	Lyophilised	1 ml	MONX10695
Cytokeratin 20	CK205	P	1:50 - 1:100	Lyophilised	1 ml	MONX10696
Cytokeratin 20	KS20.8	P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10697
Cytokeratin 20	KS20.8	P, WB	1:25 - 1:50	Liquid	1 ml	MONX10698
Cytokeratin 20	KS20.8	P	neat	Ready-to-use	7 ml	MONX10699
Cytokeratin 20	PW31	P	1:100	Liquid	1 ml	MONX11074
Cytokeratin 5/18	C-50	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10701
Cytokeratin 8/18	5D3	F, P, C	1:100	Lyophilised	1 ml	MONX10702
Cytokeratin 8/18	5D3	F, P, C	1:100	Liquid	1 ml	MONX10703
Cytokeratin 8/18	5D3	F, P, C	neat	Ready-to-use	7 ml	MONX10704
Cytokeratin 5/6/18	LP34	F, P, C	1:100	Lyophilised	1 ml	MONX10706
Cytokeratin 5/6/18	LP34	F, P, C	1:100	Liquid	1 ml	MONX10707
Cytokeratin 5/6/18	LP34	F, P	neat	Ready-to-use	7 ml	MONX10708
Cytokeratin 1/5/10/14	34_E12	F, P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10710
Cytokeratin 1/5/10/14	34_E12	F, P	neat	Ready-to-use	7 ml	MONX10711
Multi-Cytokeratin	AE1 and AE3	F, P	1:20 - 1:100	Lyophilised	1 ml	MONX10713
Multi-Cytokeratin	AE1 and AE3	F, P	1:20 - 1:100	Liquid	1 ml	MONX10714
Multi-Cytokeratin	AE1 and AE3	F, P	neat	Ready-to-use	7 ml	MONX10715
Multi-Cytokeratin (4/5/6/8/10/13/18)	C-11	F, P	1:10	Lyophilised	1 ml	MONX10717
PAN-Cytokeratin (5/6/8/18)	5D3 and LP34	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10732
PAN-Cytokeratin (5/6/8/18)	5D3 and LP34	F, P	1:50 - 1:100	Liquid	1 ml	MONX10733
PAN-Cytokeratin (5/6/8/18)	5D3 and LP34	F, P	neat	Ready-to-use	7 ml	MONX10734

Cytotoxic Drug Metabolism

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
Glutathione S-Transferase alpha	38H11	P	1:50 - 1:100	Lyophilised	1 ml	MONX10157
Glutathione S-Transferase mu	10H6	P	1:40 - 1:80	Lyophilised	1 ml	MONX10158
Glutathione S-Transferase pi	LW29	P, WB	1:200 - 1:400	Lyophilised	1 ml	MONX10159
Heat Shock Protein 27	2B4	F, P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10160
Heat Shock Protein 70	8B11	P	1:20 - 1:40	Lyophilised	1 ml	MONX10161
Heat Shock Protein 90	JPB24	P, WB	1:200 - 1:400	Lyophilised	1 ml	MONX10162
Heat Shock Protein 105	58F12	P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10163
Multidrug Resistance-Associated Protein 1	33A6	P	1:25 - 1:50	Lyophilised	1 ml	MONX10164
Multidrug Resistance-Associated Protein 3	DTX1	P	1:50 - 1:100	Lyophilised	1 ml	MONX10165
Multidrug Resistance-Associated Protein 5	69	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10166
P-glycoprotein	5B12	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10168

Growth Factors and Receptors

Specificity	Clone	Application	Dilution in IHC	Format	Unit	Cat.#
Bone Morphogenetic Protein 4	3H2	P, WB	1:10 - 1:20	Lyophilised	1 ml	MONX10169
c-MET (Hepatocyte Growth Factor Receptor)	8F11	F, P	1:20 - 1:30	Lyophilised	1 ml	MONX10170
Endoglin (CD105)	4G11	P	1:50 - 1:100	Lyophilised	1 ml	MONX10171
Endothelin-1 Receptor (ETA)	RJT2.4	P	1:50	Liquid	1 ml	MONX11060
Epidermal Growth Factor Receptor	EGFR.25	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10173
Epidermal Growth Factor Receptor	EGFR.25	F, P	1:50 - 1:100	Liquid	1 ml	MONX10174
Epidermal Growth Factor Receptor	EGFR.25	F, P	neat	Ready-to-use	7 ml	MONX10175
Epidermal Growth Factor Receptor	EGFR.113	F, P	1:10 - 1:20	Lyophilised	1 ml	MONX10177
Epidermal Growth Factor Receptor	EGFR.113	F, P	1:10 - 1:20	Liquid	1 ml	MONX10178
Growth Hormone Receptor	8D6	P	1:100 - 1:200	Lyophilised	1 ml	MONX10181
Interleukin-2 Receptor (CD25)	4C9	P	1:100 - 1:200	Lyophilised	1 ml	MONX10182
Platelet-Derived Endothelial Growth Factor	P-GF.44C	P, WB	1:60 - 1:120	Lyophilised	1 ml	MONX10184
Transforming Growth Factor Beta	TGFB17	P	1:20 - 1:40	Lyophilised	1 ml	MONX10185
Transforming Growth Factor Beta Receptor (Type 1)	8A11	P	1:25 - 1:50	Lyophilised	1 ml	MONX10186
Vascular Endothelial Growth Factor Receptor-3	KLT9	P	1:50 - 1:100	Liquid	1 ml	MONX11065

Hormone Receptors and Estrogen Regulated Proteins

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
Androgen Receptor	AR27	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10100
Androgen Receptor	2F12	F, P	1:25	Lyophilised	1 ml	MONX10101
Cathepsin D	C5	F, P	1:100-1:200	Lyophilised	1 ml	MONX10102
Estrogen Receptor	6F11	F, P, WB, C	1:40 - 1:80	Lyophilised	2 ml	MONX10103
Estrogen Receptor	6F11	F, P, WB, C	1:40 - 1:80	Lyophilised	1 ml	MONX10104
Estrogen Receptor	6F11	F, P, WB, C	1:40 - 1:80	Liquid	2 ml	MONX10105
Estrogen Receptor	6F11	F, P, WB, C	1:40 - 1:80	Liquid	1 ml	MONX10106
Estrogen Receptor	6F11	F, P	neat	Ready-to-use	7 ml	MONX10107
Estrogen & Progesterone Receptor	6F11 & 16	F, P, WB, C & F, P, WB	1:40 - 1:80 & 1:100 - 1:1200	Lyophilised	2 x 1 ml	MONX10110
Estrogen & Progesterone Receptor	6F11 & 16	F, P, WB, C & F, P, WB	1:40 - 1:80 & 1:100 - 1:1200	Lyophilised	2 x 0.5 ml	MONX10111
Estrogen & Progesterone Receptor	6F11 & 1A6	F, P, WB, C & F, P, WB	1:40 - 1:80 & 1:40	Lyophilised	2 x 1 ml	MONX10112
Estrogen & Progesterone Receptor	6F11 & 1A6	F, P, WB, C & F, P, WB	1:40 - 1:80 & 1:40	Lyophilised	2 x 0.5 ml	MONX10113
Estrogen Receptor (beta)	EMR02	P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10114
Glucocorticoid Receptor	4H2	P, WB	1:10 - 1:20	Lyophilised	1 ml	MONX10115
Gonadotropin-Releasing Hormone Receptor	A9E4	P	1:10 - 1:20	Lyophilised	1 ml	MONX10116
Progesterone Receptor	16	F, P, WB	1:100 - 1:200	Lyophilised	2 ml	MONX10121
Progesterone Receptor	16	F, P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10117
Progesterone Receptor	16	F, P, WB	1:100 - 1:200	Liquid	2 ml	MONX10122
Progesterone Receptor	16	F, P, WB	1:100 - 1:200	Liquid	1 ml	MONX10118
Progesterone Receptor	16	F, P	neat	Ready-to-use	7 ml	MONX10119
Progesterone Receptor	1A6	F, P, WB	1:40	Lyophilised	2 ml	MONX10123
Progesterone Receptor	1A6	F, P, WB	1:40	Lyophilised	1 ml	MONX10124
Progesterone Receptor	1A6	F, P, WB	1:40	Liquid	1 ml	MONX10125
Progesterone Receptor	1A6	F, P, WB	neat	Ready-to-use	7 ml	MONX10126
Progesterone Receptor polyclonal	Rabbit	F	1:100 - 1:400	Lyophilised	0.2 ml	PSX1002
Progesterone Receptor (A/B Forms)	16 & SAN27	F, P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10128
Progesterone Receptor (A/B Forms)	16 & SAN27	F, P, WB	1:100 - 1:200	Liquid	1 ml	MONX10129
Progesterone Receptor (A/B Forms)	16 & SAN27	F, P	neat	Ready-to-use	7 ml	MONX10130
Progesterone Receptor (B Form)	SAN27	F, P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10132
Progesterone Receptor (B Form)	SAN27	F, P, WB	1:100 - 1:200	Liquid	1 ml	MONX10133
pS2 Protein polyclonal	Rabbit	F, P	1:100 - 1:200	Lyophilised	0.5 ml	PSX1003
Thyroid Stimulating Hormone Receptor	4C1/E1/G8	F, P	1:25 - 1:50	Lyophilised	1 ml	MONX10138

Hormones

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
Amylin Peptide	R10/99	P	1:50 - 1:100	Lyophilised	1 ml	MONX10140
Bombesin (polyclonal)	Rabbit	P	1:200 - 1:400	Lyophilised	0.25 ml	PSX1004
Calcitonin (polyclonal)	Rabbit	F, P	1:100 - 1:200	Lyophilised	0.5 ml	PSX1005
Cholecystokinin (CCK-8) (polyclonal)	Rabbit	P	1:200 - 1:400	Lyophilised	0.25 ml	PSX1006
Gastrin (polyclonal)	Rabbit	F, P	1:100 - 1:200	Lyophilised	0.5 ml	PSX1007
Glucagon (polyclonal)	Rabbit	F, P	1:25 - 1:50	Lyophilised	0.5 ml	PSX1009
Human Chorionic Gonadotrophin (alpha)	4E12	F, P	1:100 - 1:200	Lyophilised	1 ml	MONX10143
Human Chorionic Gonadotrophin (beta) (polyclonal)	Rabbit	F, P	1:500 - 1:1000	Lyophilised	1 ml	PSX1011
Human Follicle Stimulating Hormone (beta 2)	INN-hFSH- 60	F, P	1:25 - 1:50	Lyophilised	1 ml	MONX10144
Human Growth Hormone (polyclonal)	Rabbit	F, P	1:50 - 1:100	Lyophilised	0.25 ml	PSX1012
Insulin	2D11-H5	P, O	1:75 - 1:150	Lyophilised	1 ml	MONX10145
Luteinising Hormone	C93	P	1:50 - 1:100	Lyophilised	1 ml	MONX10146
Pancreatic Polypeptide (polyclonal)	Rabbit	P	1:500 - 1:1000	Lyophilised	0.5 ml	PSX1013
Parathyroid Hormone	105G7	P	1:150 - 1:300	Lyophilised	1 ml	MONX10147
Parathyroid Hormone	OP-4	P, O	1:200 - 1:400	Lyophilised	0.5 ml	MONX10148
Placental Lactogen (polyclonal)	Rabbit	F, P, WB	1:200 - 1:400	Lyophilised	1 ml	PSX1014
Proinsulin	1G4	P	1:200 - 1:400	Lyophilised	1 ml	MONX10149
Prolactin	INN-hPRL-3	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10150
Secretogranin II	SGII 6B1/3	P	1:50 - 1:100	Lyophilised	1 ml	MONX10151
Thyroglobulin	1D4	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10152
Thyroglobulin	1D4	F, P	1:50 - 1:100	Liquid	1 ml	MONX10153
Thyroglobulin	1D4	F, P	neat	Ready-to-use	7 ml	MONX10154
Thyroglobulin	1D4	F, P	neat	Ready-to-use	12 ml	MONX10155
Thyroid Stimulating Hormone	QB2/6	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10156
Vasoactive Intestinal Polypeptide (polyclonal)	Rabbit	P	1:100 - 1:200	Lyophilised	0.25 ml	PSX1016

In Situ Hybridisation

Specificity	Conjugate	Application	Format	Number of Tests	Cat.#
Control Probe	Fluorescein	P	Liquid	50	MONX11026
Cytomegalovirus Probe	Fluorescein	P	Liquid	50	MONX11027
Epstein-Barr virus Probe	Fluorescein	P	Liquid	50	MONX11028
Histone Probe	Fluorescein	P	Liquid	50	MONX11029
Human Herpesvirus (type 8) Probe	Fluorescein	P	Liquid	50	MONX11030
J Chain Probe	Fluorescein	P	Liquid	50	MONX11031
Kappa/Lambda Probes	Fluorescein	P	Liquid	2 x 25	MONX11032
Poly d(T) Probe	Fluorescein	P	Liquid	50	MONX11034
Proinsulin Probe	Fluorescein	P	Liquid	50	MONX11036

Lymphoid Markers

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
Alpha-1-Antichymotrypsin polyclonal	Rabbit	P	1:100 - 1:200	Lyophilised	1 ml	PSX1036
Alpha-1-Antitrypsin polyclonal	Rabbit	F, P, WB	1:250 - 1:500	Lyophilised	1 ml	PSX1037
B Cell Marker (MB2)	MB2	F, P	1:40 - 1:80	Lyophilised	1 ml	MONX10600
B Cell Specific Octamer Binding Protein-1 (BOB-1)	TG14	P	1:20	Liquid	1 ml	MONX11055
Bcl-6	LN22	P	1:100	Liquid	1 ml	MONX11072
Bcl-6	P1F6	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10601
B Lymphocyte Antigen 36kD	A27.42	F, P, WB	1:25	Lyophilised	1 ml	MONX10602
BM1 (Myeloid Marker)	BM-1	F, P	1:20	Lyophilised	1 ml	MONX10603
BM2 (Myeloid Marker)	BM-2	F, P	1:25 - 1:50	Lyophilised	1 ml	MONX10604
Galectin-1	25C1	P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10605
Galectin-3	9C4	P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10606
Galectin-4	8A6	P, WB	1:50	Liquid	1 ml	MONX11061
Galectin-7	5F12	P	1:100	Liquid	1 ml	MONX11075
Granzyme B	11F1	P	1:40 - 1:80	Lyophilised	1 ml	MONX10608
Granzyme B	11F1	P	1:40 - 1:80	Liquid	1 ml	MONX10609
Granzyme B	11F1	P	neat	Ready-to-use	7 ml	MONX10610
HLA Class I Antigen	W6/32-HL	F	1:25 - 1:50	Lyophilised	1 ml	MONX10612
HLA Class II (DR) Antigen	LN-3	F, P	1:50	Lyophilised	1 ml	MONX10615
Neutrophil Defensins	D21	P	1:500	Lyophilised	1 ml	MONX10617
Immunoglobulin A polyclonal	Rabbit	P, WB, O	1:100 - 1:200	Lyophilised	1 ml	PSX1038
Immunoglobulin D polyclonal	Rabbit	P, O	1:100 - 1:200	Lyophilised	1 ml	PSX1039
Immunoglobulin G polyclonal	Rabbit	P, WB, O	1:100 - 1:200	Lyophilised	1 ml	PSX1040
Immunoglobulin M polyclonal	Rabbit	P, WB, O	1:100 - 1:200	Lyophilised	1 ml	PSX1041
Kappa Light Chain	kp-53	F, P, WB	1:100	Lyophilised	1 ml	MONX10618
Kappa Light Chain	L1C1	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10619
Kappa Light Chain polyclonal	Rabbit	P, WB	1:500 - 1: 1000	Lyophilised	1 ml	PSX1042
Lambda Light Chain	HP-6054	F, P, WB	1:200 - 1:300	Lyophilised	1 ml	MONX10620
Lambda Light Chain polyclonal	Rabbit	P, WB	1:1000 - 1:2000	Lyophilised	1 ml	PSX1043
Linker for Activation of T Cells	3.8	F, P	1:100 - 1:200	Lyophilised	1 ml	MONX10621
Linker for Activation of T Cells	3.8	F, P	1:100 - 1:200	Liquid	1 ml	MONX10622
Lymphocyte/Histiocyte Antigen	TXM4	F, P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10626
Macrophage Marker	3A5	F, P	1:80 - 1:160	Lyophilised	1 ml	MONX10631
Macrophage Marker	LN-5	P	1:40 - 1:80	Lyophilised	1 ml	MONX10632
Macrophage Marker	MAC387	F, P	1:100	Lyophilised	1 ml	MONX10633
Mast Cell Chymase	CC1	P	1:100 - 1:200	Lyophilised	1 ml	MONX10634
Mast Cell Trypsin	10D11	P	1:150 - 1:300	Lyophilised	1 ml	MONX10635
Muramidase (Lysozyme) polyclonal	Rabbit	P, WB	1:100 - 1:200	Lyophilised	1 ml	PSX1044
Myeloid Cell Nuclear Differentiation Antigen	4A4	P	1:100 - 1:200	Lyophilised	1 ml	MONX10637
Oct-2	Oct207	P	1:25 - 1:50	Lyophilised	1 ml	MONX10638
p80 (Anaplastic Lymphoma Kinase)	5A4	P	1:100	Lyophilised	1 ml	MONX10639
Plasma Cell Marker	LIV3G11	P	1:100 - 1:200	Lyophilised	1 ml	MONX10640
Secretory Leukocyte Protease Inhibitor	31	P	1:50 - 1:100	Lyophilised	1 ml	MONX10641
Terminal Deoxynucleotidyl Transferase	SEN28	P, WB	1:50 - 1:100	Lyophilised	1 ml	MONX10644
Terminal Deoxynucleotidyl Transferase	SEN28	P, WB	1:50 - 1:100	Liquid	1 ml	MONX10645
Terminal Deoxynucleotidyl Transferase	SEN28	P	neat	Ready-to-use	7 ml	MONX10646
Thymus and Activation-Regulated Chemokine	6SN	P	1:25 - 1:50	Lyophilised	1 ml	MONX10649

Microbiology/Virology

[illegible]

Muscles

Specificity	Clone	Application	Dilution in IHC	Format	Unit	Cat.#
Alpha-Actinin	RBC2/1B6	F, WB	1:40 - 1:80	Lyophilised	1 ml	MONX10790
Beta-Dystroglycan	43DAG1/8D5	F, WB, EM	1:50 - 1:200	Lyophilised	1 ml	MONX10791
Calpain	Calp3d/2C4	WB		Lyophilised	1 ml	MONX11082
Calpain	Calp3c/11B3	WB		Lyophilised	1 ml	MONX11080
Calpain	Calp3c/11B3	WB		Lyophilised	2.5 ml	MONX10793
Calpain	Calp3c/12A2	WB		Lyophilised	1 ml	MONX11081
Calpain	Calp3c/12A2	WB		Lyophilised	2.5 ml	MONX10794
Dysferlin	Ham1/7B6	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10795
Dysferlin	Ham3/17B2	F, P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10796
Dystrophin (Rod Domain)	Dy4/6D3	F	neat - 1:20	Lyophilised	1 ml	MONX11084
Dystrophin (Rod Domain)	Dy4/6D3	F	neat - 1:20	Lyophilised	2.5 ml	MONX10797
Dystrophin (C-terminus)	Dy8/6C5	F	neat - 1:20	Lyophilised	1 ml	MONX11085
Dystrophin (C-terminus)	Dy8/6C5	F	neat - 1:20	Lyophilised	2.5 ml	MONX10798
Dystrophin (N-terminus)	Dy10/12B2	F	neat - 1:20	Lyophilised	1 ml	MONX11086
Dystrophin (N-terminus)	Dy10/12B2	F	neat - 1:20	Lyophilised	2.5 ml	MONX10799
Dystrophin	13H6	P	1:10 - 1:20	Lyophilised	1 ml	MONX10800
Dystrophin	34C5	P	1:40 - 1:80	Lyophilised	1 ml	MONX10801
Emerin	4G5	F, P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10804
Merosin Laminin Alpha 2 Chain	Mer3/22B2	F	1:50 - 1:100	Lyophilised	1 ml	MONX10805
Myosin Heavy Chain (developmental)	RNMy2/9D2	F	1:10 - 1:40	Lyophilised	1 ml	MONX10806
Myosin Heavy Chain (fast)	WB-MHCf	F	1:10 - 1:40	Lyophilised	1 ml	MONX10807
Myosin Heavy Chain (neonatal)	WB-MHCn	F	1:5 - 1:20	Lyophilised	1 ml	MONX10808
Myosin Heavy Chain (slow)	WB-MHCs	F	1:20 - 1:80	Lyophilised	1 ml	MONX10809
Myosin Heavy Chain (smooth muscle)	S131	F, P	1:100 - 1:200	Lyophilised	1 ml	MONX10810
Myotilin	RSO34	F, P	1:40 - 1:80	Lyophilised	1 ml	MONX10811
Alpha-Sarcoglycan (Adhalin)	Ad1/20A6	F, WB, EM	1:100 - 1:200	Lyophilised	1 ml	MONX10812
Alpha-Sarcoglycan (Adhalin)	Ad1/20A6	F, WB, EM	1:100 - 1:200	Liquid	1 ml	MONX10813
Beta-Sarcoglycan	BSarc1/5B1	F, EM	1:50 - 1:200	Lyophilised	1 ml	MONX10814
Beta-Sarcoglycan	BSarc1/5B1	F, EM	1:50 - 1:200	Lyophilised	1 ml	MONX10815
Delta-Sarcoglycan	BSarc3/12C1	F, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10816
Gamma-Sarcoglycan	35DAG/21B5	F, EM	1:100	Lyophilised	1 ml	MONX10817
Spectrin (recommended for human use)	RBC2/3D5	F, WB, EM	1:100	Lyophilised	1 ml	MONX10818
Spectrin (Broad spectrum)	RBC1/5B1	F	1:100	Lyophilised	1 ml	MONX10819
Troponin C	1A2	P	1:20 - 1:40	Lyophilised	1 ml	MONX10820
Troponin T	T1/61	F, P, WB	1:10 - 1:20	Lyophilised	1 ml	MONX10821
Utrophin (N-terminus)	DRP3/20C5	F, EM	1:2 - 1:10	Lyophilised	2.5 ml	MONX10823

Neuroscience

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
Alpha-Internexin	2E3	P	1:50 - 1:100	Lyophilised	1 ml	MONX10737
Alpha-Synuclein	KM51	P	1:20 - 1:40	Lyophilised	1 ml	MONX10738
Alpha-Synuclein	KM51	P	1:20 - 1:40	Liquid	1 ml	MONX10739
Amyloid Precursor Protein	3G12	P	1:25 - 1:50	Lyophilised	1 ml	MONX10740
Amyloid Precursor Protein	40.10	P	1:20 - 1:40	Lyophilised	1 ml	MONX10741
Beta Amyloid	6F/3D	P	1:50	Lyophilised	1 ml	MONX10742
Beta Amyloid and Tau (duo pack)	6F/3D and Tau-2	P	1:50 and 1:50 - 1:100	Lyophilised	2 x 0.5 ml	MONX10743
Calbindin	KR6	P	1:100 - 1:200	Lyophilised	1 ml	MONX10744
Choline Acetyltransferase	38B12	P	1:25 - 1:50	Lyophilised	1 ml	MONX10745
Excitatory Amino Acid Transporter 1	10D4	F, P	1:20 - 1:160	Lyophilised	1 ml	MONX10746
Excitatory Amino Acid Transporter 2	1H8	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10747
GAP43	1G7	P	1:20 - 1:40	Lyophilised	1 ml	MONX10748
Glial Fibrillary Acidic Protein	GA5	F, P	1:100	Lyophilised	1 ml	MONX10749
Glial Fibrillary Acidic Protein	GFP/6F2	F, P	1:100	Lyophilised	0.5 ml	MONX10750
Myelin Basic Protein	7H11	P	1:75 - 1:150	Lyophilised	1 ml	MONX10752
Nerve Growth Factor Receptor (gp75)	7F10	P	1:50 - 1:100	Lyophilised	1 ml	MONX10753
Neuroblastoma Marker	NB84a	F, P, C	1:100 - 1:200	Lyophilised	1 ml	MONX10754
Neurofilament 68 kD	DA2	F, P	1:200 - 1:400	Lyophilised	1 ml	MONX10755
Neurofilament 68 kD	NR4	F, P	1:20 - 1:50	Lyophilised	1 ml	MONX10756
Neurofilament 160 kD	BF10	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10757
Neurofilament 200 kD	RT97	F, P	1:50	Lyophilised	1 ml	MONX10759
Neurofilament 200 kD	N52.1.7	F, P	1:25 - 1:400	Lyophilised	1 ml	MONX10760
Neuron Specific Enolase	22C9	P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10761
Neuron Specific Enolase	5E2	F, P, WB	1:50 - 1:100	Lyophilised	1 ml	MONX10763
Neuron Specific Enolase	5E2	F, P, WB	1:50 - 1:100	Liquid	1 ml	MONX10764
Neuron Specific Enolase	5E2	F, P	neat	Ready-to-use	7 ml	MONX10765
Nicotinic Acetylcholine Receptor Alpha4	8A4	P	1:100 - 1:200	Lyophilised	1 ml	MONX10767
Nitric Oxide Synthase-1	NOS-125	P	1:25 - 1:50	Lyophilised	1 ml	MONX10768
Parvalbumin (Alpha)	2E11	P	1:200 - 1:400	Lyophilised	1 ml	MONX10769
Peripherin	PJM50	F, P, WB, O	1:100 - 1:200	Lyophilised	1 ml	MONX10770
Protein Gene Product 9.5	10A1	F, P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10771
Protein Gene Product 9.5	10A1	F, P, WB	1:20 - 1:40	Liquid	1 ml	MONX10772
S-100 Protein	S1/61/69	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10775
S-100 Protein polyclonal	Rabbit	F, P	1:200 - 1:400	Lyophilised	1 ml	PSX1049
S-100 Protein polyclonal	Rabbit	F, P	1:200 - 1:400	Liquid	1 ml	PSX1050
Serotonin polyclonal	Rabbit	P	1:100 - 1:200	Lyophilised	0.5 ml	PSX1053
SNAP-25	SP12	P, WB	1:200 - 1:400	Lyophilised	0.5 ml	MONX10776
Synaptic Vesicle Protein 2	15E11	P	1:50 - 1:100	Lyophilised	1 ml	MONX10778
Synaptophysin	27G12	F, P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10779
Synaptophysin	27G12	F, P, WB	1:100 - 1:200	Liquid	1 ml	MONX10780
Synaptophysin	27G12	F, P	neat	Ready-to-use	7 ml	MONX10781
Synaptophysin polyclonal	Rabbit	F, P	1:20 - 1:40	Lyophilised	1 ml	PSX1055
Tau	Tau-2	P	1:50 - 1:100	Lyophilised	1 ml	MONX10783
Tubulin Beta II	KNY-379	P	1:100 - 1:200	Lyophilised	1 ml	MONX10784
Tryptophan Hydroxylase	5C4	P	1:50 - 1:100	Lyophilised	1 ml	MONX10785
Tyrosine Hydroxylase	1B5	P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10786
Ubiquitin	FPM1	P	1:25 - 1:50	Lyophilised	1 ml	MONX10788
Ubiquitin polyclonal	Rabbit	F, P	1:500	Lyophilised	1 ml	PSX1056
Vesicular Monoamine Transporter (VMAT2)	NN 136	P	1:40	Liquid	1 ml	MONX11063
Vesicular Monoamine Transporter (VMAT2)	RMT77	P	1:500	Liquid	1 ml	MONX11079

Oncoproteins

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
bcl-2 Oncoprotein	3.1	P, WB	see datasheet	Lyophilised	1 ml	MONX10217
bcl-2 Oncoprotein	bcl-2/100/D5	F, P, WB	1:80	Lyophilised	1 ml	MONX10213
bcl-2 Oncoprotein	bcl-2/100/D5	F, P, WB	1:80	Liquid	1 ml	MONX10214
bcl-2 Oncoprotein	bcl-2/100/D5	F, P	neat	Ready-to-use	7 ml	MONX10215
Bcl-3 Oncoprotein	1E8	F, P	1:25 - 1:50	Lyophilised	1 ml	MONX10218
Bcl-10 Oncoprotein	DAA22	WB		Lyophilised	1 ml	MONX10219
c-erbB-2 Oncoprotein (Internal Domain)	CB11	F, P, C	1:40	Lyophilised	1 ml	MONX10221
c-erbB-2 Oncoprotein (Internal Domain)	CB11	F, P, C	1:40	Liquid	1 ml	MONX10222
c-erbB-2 Oncoprotein (Internal Domain)	CB11	F, P	neat	Ready-to-use	7 ml	MONX10223
c-erbB-2 Oncoprotein (External Domain)	10A7	P, WB	1:40 - 1:80	Lyophilised	1 ml	MONX10225
c-erbB-2 Oncoprotein (External Domain)	10A7	P, WB	1:40 - 1:80	Liquid	1 ml	MONX10226
c-erbB-2 Oncoprotein (External Domain)	10A7	P	neat	Ready-to-use	7 ml	MONX10227
c-erbB-2 Oncoprotein (External Domain)	CBE1	F, P	1:10 - 1:20	Lyophilised	1 ml	MONX10229
c-erbB-3 Oncoprotein	RTJ1	F, P, O	1:20 - 1:40	Lyophilised	1 ml	MONX10230
c-fos Oncoprotein	CF2	F	1:40	Lyophilised	1 ml	MONX10231
c-jun Oncoprotein	DK4	F, P	1:40 - 1:80	Lyophilised	1 ml	MONX10232
c-kit Oncoprotein (CD117)	T595	P	1:20 - 1:40	Lyophilised	1 ml	MONX10233
c-kit Oncoprotein (CD117)	T595	P	1:20 - 1:40	Liquid	1 ml	MONX10234
c-kit Oncoprotein (CD117)	T595	P	neat	Ready-to-use	7 ml	MONX10235
c-kit Oncoprotein (CD117)	57A5D8	F	1:200 - 1:400	Lyophilised	1 ml	MONX10237
c-myc Oncoprotein	9E11	F, P	1:150 - 1:250	Lyophilised	1 ml	MONX10238
Ets-1 Oncoprotein	1G11	F, P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10239
MDM2 Protein	1B10	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10240
ret Oncoprotein	3F8	P	1:20 - 1:40	Lyophilised	1 ml	MONX10242

Oncosuppressor and Associated Proteins

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
Adenomatous Polyposis Coli Protein	EMM43	P	1:20 - 1:40	Lyophilised	1 ml	MONX10188
Deleted in Colorectal Cancer Protein	DM51	P	1:20 - 1:40	Lyophilised	1 ml	MONX10189
Deleted in Pancreatic Cancer Locus 4 Protein	JM56	P	1:20 - 1:40	Lyophilised	1 ml	MONX10190
Maspin	EAW24	P	1:25 - 1:50	Lyophilised	1 ml	MONX10191
p53 Protein	IMX25	P, WB	1:50 - 1:100	Lyophilised	1 ml	MONX10194
p53 Protein (1801)	PAb 1801	F, P, WB, C, O	1:40	Lyophilised	1 ml	MONX10195
p53 Protein (BP53-12)	BP53-12	F, P, WB, O	1:50	Lyophilised	1 ml	MONX10196
p53 Protein (CM1) polyclonal	Rabbit	F, P, WB, O	1:50 - 1:100	Lyophilised	0.2 ml	PSX1020
p53 Protein (CM5) polyclonal	Rabbit	P, WB	1:500 - 1:1000	Lyophilised	0.2 ml	PSX1021
p53 Protein (DO-1)	DO-1	F, P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10197
p53 Protein (DO-7)	DO-7	F, P, WB, C, O	1:50 - 1:100	Lyophilised	1 ml	MONX10198
p53 Protein (DO-7)	DO-7	F, P, WB, C, O	1:50 - 1:100	Liquid	1 ml	MONX10199
p53 Protein (DO-7)	DO-7	F, P	neat	Ready-to-use	7 ml	MONX10200
p53 Protein (Phosphospecific)	FP3-2	P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10204
p63 Protein	7-JUL	F, P	1:25 - 1:50	Lyophilised	1 ml	MONX10205
p73 Protein (alpha)	24	F, P	see datasheet	Lyophilised	1 ml	MONX10206
Retinoblastoma Gene Protein	13A10	F, P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10207
Retinoblastoma Gene Protein	13A10	F, P, WB	1:25 - 1:50	Liquid	1 ml	MONX10208
Retinoblastoma Gene Protein	13A10	F, P	neat	Ready-to-use	7 ml	MONX11090
Retinoblastoma Gene Protein	1F8	F, P, WB	1:20 - 1:50	Lyophilised	1 ml	MONX10209
WAF1 Protein	4D10	P	1:20 - 1:40	Lyophilised	1 ml	MONX10211
WAF1 Protein	4D10	P	1:20 - 1:40	Liquid	1 ml	MONX10212

Small and Intermediate Filaments

Specificity	Clone	Application	Dilution in IHC	Format	Unit	Cat.#
Alpha Smooth Muscle Actin	asm-1	F, P, WB	1:50	Lyophilised	1 ml	MONX10651
Alpha Smooth Muscle Actin	asm-1	F, P	neat	Ready-to-use	7 ml	MONX10652
Calponin (basic)	26A11	F, P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10654
Desmin	DE-R-11	F, P, WB	1:50 - 1:100	Lyophilised	1 ml	MONX10656
Desmin	DE-R-11	F, P, WB	1:50 - 1:100	Liquid	1 ml	MONX10657
Desmin	DE-R-11	F, P	neat	Ready-to-use	7 ml	MONX10658
Filaggrin	15C10	P	1:50 - 1:100	Lyophilised	1 ml	MONX10660
Muscle Specific Actin	HHF35	F, P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10661
Vimentin	VIM 3B4	F, P, WB	1:100	Lyophilised	1 ml	MONX10662
Vimentin	V9	F, P, WB	1:50 - 1:100	Lyophilised	1 ml	MONX10663
Vimentin	V9	F, P, WB	1:50 - 1:100	Liquid	1 ml	MONX10664
Vimentin	V9	F, P	neat	Ready-to-use	7 ml	MONX10665

Special Interest

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
Amyloid P Protein	B5	F, P	1:25	Lyophilised	1 ml	MONX10888
Aurora Kinase 2	JLM28	P, WB	1:50	Liquid	1 ml	MONX11066
Beta-2-Microglobulin polyclonal	Rabbit	P, O	1:100 - 1:200	Lyophilised	1 ml	PSX1058
Blood Coagulation Factor	E980.1	P	1:40 - 1:80	Lyophilised	1 ml	MONX10889
Calmodulin	6312	P	1:25 - 1:50	Lyophilised	1 ml	MONX10891
Calretinin	5A5	P	1:100	Lyophilised	1 ml	MONX10892
Calretinin	5A5	P	1:100	Liquid	1 ml	MONX10893
Calretinin	5A5	P	neat	Ready-to-use	7 ml	MONX10894
Calretinin	CAL6	P	1:200	Liquid	1 ml	MONX11073
Carboxypeptidase M	1C2	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10896
Cathepsin B	CB131	P	1:40 - 1:80	Lyophilised	1 ml	MONX10897
Cathepsin F	CTF12	P, WB	1:40 - 1:80	Lyophilised	1 ml	MONX10898
Cathepsin G	19C3	P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10899
Cathepsin L	13C2	P	1:25 - 1:50	Lyophilised	1 ml	MONX10901
Caveolin-1	4D6	P, WB	1:200	Liquid	1 ml	MONX11056
Collagen Type II polyclonal	Rabbit	P	1:15 - 1:30	Lyophilised	1 ml	PSX1060
Collagen Type IV	PHM-12	F, P	1:100 - 1:200	Lyophilised	1 ml	MONX10902
Collagen Type VI (alpha3 chain)	64C11	P	1:25 - 1:100	Lyophilised	1 ml	MONX10903
Collagen Type VII	LH7.2	F	1:50 - 1:100	Lyophilised	1 ml	MONX10904
Complement Component C9	10A6	P	1:50 - 1:100	Lyophilised	1 ml	MONX10905
Cyclooxygenase-1	12E12	P	1:20 - 1:40	Lyophilised	1 ml	MONX10906
Cyclooxygenase-2	4H12	P	1:50 - 1:100	Lyophilised	1 ml	MONX10907
E3 Binding Protein	ARM1	F, P, WB	1:30 - 1:60	Lyophilised	1 ml	MONX10908
Elastin	BA-4	P	1:100 - 1:200	Lyophilised	0.5 ml	MONX10909
Entactin	1H12	F, P, WB	see datasheet	Lyophilised	1 ml	MONX10910
Envoplakin	CRENV-1	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10911
Fascin	IM20	P, WB	1:200 - 1:400	Lyophilised	1 ml	MONX10912
Fascin	IM20	P, WB	1:200 - 1:400	Liquid	1 ml	MONX10913
Fibronectin	568	F, P	1:100 - 1:200	Lyophilised	1 ml	MONX10914
Filamin	PM6/317	F, P, WB	1:50 - 1:100	Lyophilised	1 ml	MONX10915
Gamma-Synuclein	KC30	P	1:50 - 1:100	Liquid	1 ml	MONX11069
Geminin	EM6	P	1:40	Liquid	1 ml	MONX11076
Granulysin	RJT48	P	1:80	Liquid	1 ml	MONX11077
Human Secretory Component	SC-05	F, P	1:20	Lyophilised	1 ml	MONX10917
Human Spasmolytic Polypeptide	GE16C	P	1:25 - 1:50	Lyophilised	1 ml	MONX10918
Interleukin 6	10C12	P	1:50	Liquid	1 ml	MONX11062
Involucrin	SY5	F, P, O	1:100 - 1:200	Lyophilised	1 ml	MONX10919
Lamin A	133A2	P	1:40 - 1:80	Lyophilised	1 ml	MONX10920
Lamin A/C	636	F, P, WB	1:10 - 1:20	Lyophilised	1 ml	MONX10921
Lamin B2	LN43.2	F	1:200	Lyophilised	1 ml	MONX10922
Laminin	LAM-89	F, P	1:50 - 1:100	Lyophilised	0.5 ml	MONX10923
Langerin	12D6	P	1:100 - 1:200	Lyophilised	1 ml	MONX10924
Lung Resistance-Related Protein	9D6	P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10926
Nitric Oxide Synthase-3	RN5	P, F	1:40 - 1:80	Lyophilised	1 ml	MONX10927
Osteonectin	15G12	P, WB	1:40 - 1:80	Lyophilised	1 ml	MONX10928
Perforin	5B10	P	1:20	Lyophilised	1 ml	MONX10929
Plasminogen Activator Inhibitor (Type 1)	TJA6	P	1:20 - 1:40	Lyophilised	1 ml	MONX10930
Sarcoplasmic or Endoplasmic Reticulum Ca2+ ATPase (SERCA)	IID8	F, P	1:50 - 1:100	Lyophilised	0.5 ml	MONX10932

Special Interest

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
SM22 Alpha	10H12	P, WB	1:50	Liquid	1 ml	MONX11070
Superoxide Dismutase (Cu/Zn)	30F11	P, WB	1:50 - 1:100	Lyophilised	1 ml	MONX10934
Tartrate-Resistant Acid Phosphatase	26E5	P	1:50 - 1:100	Lyophilised	1 ml	MONX10936
Tenascin C	Ten-C 49	P	1:100 - 1:200	Lyophilised	1 ml	MONX10938
Thrombospondin-1	8A6b	P	1:50 - 1:100	Lyophilised	1 ml	MONX10939
Tuberin	3B4	P	1:25 - 1:50	Lyophilised	1 ml	MONX10940
Vinculin	V284	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10941

Tumour Markers

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
Alpha Fetoprotein	C3	F, P	1:50	Lyophilised	1 ml	MONX10448
Apolipoprotein D	36C3	P, WB	1:40 - 1:80	Lyophilised	1 ml	MONX10449
BAG-1 (RAP46 Protein)	5C5	P, WB	1:25 - 1:50	Lyophilised	1 ml	MONX10450
CA19-9 (Sialyl Lewis ^a)	C241:5:1:4	F, P	1:200	Lyophilised	1 ml	MONX10451
CA19-9 (Sialyl Lewis ^a)	C241:5:1:4	F, P	1:200	Liquid	1 ml	MONX10452
CA125 (Ovarian Cancer Antigen)	Ov185:1	F, P	1:100	Lyophilised	1 ml	MONX10454
CA125 (Ovarian Cancer Antigen)	Ov185:1	F, P	1:100	Liquid	1 ml	MONX10455
Carcinoembryonic Antigen (CD66e)	12-140-10	F, P	1:100 - 1:200	Lyophilised	1 ml	MONX10460
Carcinoembryonic Antigen (CD66e)	12-140-10	F, P	1:100 - 1:200	Liquid	1 ml	MONX10461
Carcinoembryonic Antigen (CD66e)	12-140-10	F, P	neat	Ready-to-use	7 ml	MONX10462
CDX2	AMT28	P	1:50 - 1:100	Lyophilised	1 ml	MONX10464
Chromogranin A	5H7	P	1:200	Lyophilised	1 ml	MONX10465
Clusterin (Apolipoprotein J)	7D1	F, P	1:30 - 1:60	Lyophilised	1 ml	MONX10469
Endothelial Cell Marker (CD34)	QBEnd/10	F, P, C	1:50	Lyophilised	1 ml	MONX10470
Endothelial Cell Marker (CD34)	QBEnd/10	F, P, C	1:50	Liquid	1 ml	MONX10471
Endothelial Cell Marker (CD34)	QBEnd/10	F, P	neat	Ready-to-use	7 ml	MONX10472
Epithelial Membrane Antigen	GP1.4	F, P	1:200 - 1:400	Lyophilised	1 ml	MONX10474
Epithelial Membrane Antigen	GP1.4	F, P	1:200 - 1:400	Liquid	1 ml	MONX10475
Epithelial Membrane Antigen	GP1.4	F, P	neat	Ready-to-use	7 ml	MONX10476
Epithelial-Related Antigen	MOC-31	F, P	1:25 - 1:50	Lyophilised	1 ml	MONX10478
Epithelial Specific Antigen	VU-1D9	F, P, WB, O	1:50 - 1:100	Lyophilised	1 ml	MONX10479
Epithelial Specific Antigen	VU-1D9	F, P	neat	Ready-to-use	7 ml	MONX10480
Gross Cystic Disease Fluid Protein-15	23A3	P	1:20 - 1:40	Lyophilised	1 ml	MONX10482
Gross Cystic Disease Fluid Protein-15	23A3	P	1:20 - 1:40	Liquid	1 ml	MONX10483
Gross Cystic Disease Fluid Protein-15	23A3	P	neat	Ready-to-use	7 ml	MONX10484
Hepatocyte Specific Antigen	OCH1E5	P	1:50	Lyophilised	1 ml	MONX10486
Heregulin	P137	P	1:25 - 1:50	Lyophilised	1 ml	MONX10487
Human Gastric Mucin	45M1	F, P	1:50	Lyophilised	1 ml	MONX10488
Human Milk Fat Globule	1.10.F3	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10489
Human Milk Fat Globule	3.14.A3	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10490
MAGE-1	6C1	P	1:50 - 1:100	Lyophilised	1 ml	MONX10491
Matrix Metalloproteinase 2	1B4	P	1:40 - 1:80	Lyophilised	1 ml	MONX10493
Matrix Metalloproteinase 9	15W2	F, P	1:40 - 1:80	Lyophilised	1 ml	MONX10495
Matrix Metalloproteinase 10	5E4	P	1:25 - 1:50	Lyophilised	1 ml	MONX10497
Matrix Metalloproteinase 19	9F6	P	1:20 - 1:40	Lyophilised	1 ml	MONX10498
Melan A	A103	F, P, WB	1:25	Lyophilised	1 ml	MONX10499
Melan A	A103	F, P, WB	1:25	Liquid	1 ml	MONX10500
Melan A	A103	F, P	neat	Ready-to-use	7 ml	MONX10501
Melanoma Marker (CD63)	NKI/C3	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10503
Melanoma Marker (HMB45)	HMB45	F, P	1:30 - 1:60	Lyophilised	1 ml	MONX10504
Mesothelin	5B2	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10505
Mesothelin	5B2	F, P	1:20 - 1:40	Liquid	1 ml	MONX10506
Mesothelin	5B2	F, P	neat	Ready-to-use	7 ml	MONX10507
Microphthalmia Transcription Factor (MITF)	34CA5	F, P	1:10 - 1:20	Lyophilised	1 ml	MONX10511
Microphthalmia Transcription Factor (MITF)	34CA5	F, P	1:10 - 1:20	Liquid	1 ml	MONX10512
Muc-1 Core Glycoprotein	Ma552	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10513
Muc-1 Glycoprotein	Ma695	F, P	1:100	Lyophilised	1 ml	MONX10514
Muc-2 Glycoprotein	Ccp58	F, P	1:100 - 1:200	Lyophilised	1 ml	MONX10515
Muc-5AC Glycoprotein	CLH2	P	1:50 - 1:100	Lyophilised	1 ml	MONX10516

Tumour Markers

Specificity	Clone / Host	Application	Dilution in IHC	Format	Unit	Cat.#
Muc-6 Glycoprotein	CLH5	P	1:50 - 1:100	Lyophilised	1 ml	MONX10517
Myeloperoxidase	59A5	P	1:75 - 1:150	Lyophilised	1 ml	MONX10518
Myf-3 (Rhabdomyosarcoma Marker)	3A11	P	1:40 - 1:80	Lyophilised	1 ml	MONX10520
Myf-4 (Rhabdomyosarcoma Marker)	LO26	P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10521
Myf-4 (Rhabdomyosarcoma Marker)	LO26	P, WB	1:20 - 1:40	Liquid	1 ml	MONX10522
MyoD1 (Rhabdomyosarcoma Marker)	5.8A	F, P, O	1:20 - 1:50	Lyophilised	1 ml	MONX10523
Myoglobin	MYO18	P, WB	1:50 - 1:100	Lyophilised	1 ml	MONX10524
nm23 Protein	37.6	F, P, WB	1:100 - 1:250	Lyophilised	1 ml	MONX10525
nm23 Protein	NM301	F, P, WB	1:20 - 1:40	Lyophilised	1 ml	MONX10526
Osteopontin	OP3N	P	1:50 - 1:100	Lyophilised	1 ml	MONX10527
Pax-5	1EW	P, WB	1:20 - 1:40	Liquid	1 ml	MONX11054
Placental Alkaline Phosphatase	8A9	F, P	1:20 - 1:40	Lyophilised	1 ml	MONX10528
Placental Alkaline Phosphatase	8A9	F, P	1:20 - 1:40	Liquid	1 ml	MONX10529
Placental Alkaline Phosphatase	8A9	F, P	neat	Ready-to-use	7 ml	MONX10530
Prealbumin polyclonal	Rabbit	F, P	1:50 - 1:100	Lyophilised	1 ml	PSX1034
Prostate Specific Antigen	35H9	P	1:50 - 1:100	Lyophilised	1 ml	MONX10533
Prostate Specific Antigen	PSA 28/A4	F, P	1:50 - 1:100	Liquid	1 ml	MONX10570
Prostate Specific Antigen	PSA 28/A4	F, P	neat	Ready-to-use	7 ml	MONX10571
Prostate Specific Membrane Antigen	1D6	P	1:50	Liquid	1 ml	MONX11067
Prostate Tumour Overexpressed Protein 1	17C6	P	1:40 - 1:80	Lyophilised	1 ml	MONX10573
Prostatic Acid Phosphatase	PASE/4LJ	F, P	1:100	Liquid	1 ml	MONX10575
Prostatic Inhibin Peptide	4A6A6	P	1:20 - 1:40	Lyophilised	1 ml	MONX10576
PTEN	28H6	P	1:100 - 1:200	Lyophilised	1 ml	MONX10577
Renal Cell Carcinoma Marker	66.4.C2	P	1:50 - 1:100	Lyophilised	1 ml	MONX10578
S100A7	3DC	P	1:50	Liquid	1 ml	MONX11068
Surfactant Protein A	32E12	P	1:100 - 1:200	Lyophilised	1 ml	MONX10580
Surfactant Precursor Protein B	19H7	P	1:25 - 1:50	Lyophilised	1 ml	MONX10581
Thyroid Transcription Factor-1	SPT24	F, P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10583
Thyroid Transcription Factor-1	SPT24	F, P, WB	1:100 - 1:200	Liquid	1 ml	MONX10584
Tissue Inhibitor of Matrix Metalloproteinase 1	6F6a	P	1:75 - 1:150	Lyophilised	1 ml	MONX10586
Tissue Inhibitor of Matrix Metalloproteinase 2	46E5	P	1:20	Lyophilised	1 ml	MONX10588
Tissue Inhibitor of Matrix Metalloproteinase 3	18D12b	F, P	1:50 - 1:100	Lyophilised	1 ml	MONX10589
Tyrosinase	T311	F, P	1:25 - 1:50	Lyophilised	1 ml	MONX10590
Tyrosinase	T311	F, P	1:25 - 1:50	Liquid	1 ml	MONX10591
Tyrosinase	T311	F, P	neat	Ready-to-use	7 ml	MONX10592
Tyrosinase-Related Protein-1	G3E6	P	1:100 - 1:200	Lyophilised	1 ml	MONX10594
Villin	CWWB1	F, P, WB	1:100 - 1:200	Lyophilised	1 ml	MONX10595
Villin	CWWB1	F, P, WB	1:100 - 1:200	Liquid	1 ml	MONX10596
von Willebrand Factor	36B11	F, P	1:100 - 1:200	Lyophilised	1 ml	MONX10597
von Willebrand Factor	36B11	F, P	1:100 - 1:200	Liquid	1 ml	MONX10598
Wilms' Tumor	WT49	P	1:40	Liquid	1 ml	MONX11064

MONOSAN® APPLICATIONS

Product	Application	Unit	Cat.#
Monosan Plus (AP) Polymer Kit	O	1 Kit (6 mL / 60 Tests)	MON-APP101
Monosan Plus (AP) Polymer Bulk Kit	O	1 Kit (100 mL/1000 Tests)	MON-APP102
Monosan Plus (HRP) Polymer Kit	O	1 Kit (6 mL / 60 Tests)	MON-APP103
Monosan Plus (HRP) Polymer Bulk Kit	O	1 Kit (100 mL /1000 Tests)	MON-APP104
Monosan Plus Double Stain Polymer Kit	O	1 Kit (6 mL / 60 Tests)	MON-APP105
Monosan Plus (HRP) Polymer anti-Mouse	O	6 mL /60 Tests	MON-APP106
Monosan Plus (HRP) Polymer anti-Mouse	O	100 mL /1000 Tests	MON-APP107
Monosan Plus (HRP) Polymer anti-Mouse/Rabbit	O	6 mL /60 Tests	MON-APP108
Monosan Plus (HRP) Polymer anti-Mouse/Rabbit	O	100 mL /1000 Tests	MON-APP109
Monosan Plus (AP) Broad Spectrum (Fast Red) Kit	O	1 Kit (8mL / 80 Tests)	MON-APP110
Monosan Plus (AP) Broad Spectrum Bulk Kit	O	1 Kit (125mL / 1250 Tests)	MON-APP111
Monosan Plus (AP) Broad Spectrum Bulk Kit	O	1 Kit (500mL / 5000 Tests)	MON-APP112
Monosan Plus (AP) Broad Spectrum Kit	O	1 Kit (60mL / 600 Tests)	MON-APP113
Monosan Plus (HRP) Broad Spectrum (AEC) Kit	O	1 Kit (8mL / 80 Tests)	MON-APP114
Monosan Plus (HRP) Broad Spectrum (DAB) Kit	O	1 Kit (8mL / 80 Tests)	MON-APP115
Monosan Plus (HRP) Broad Spectrum Bulk Kit	O	1 Kit (125mL / 1250 Tests)	MON-APP116
Monosan Plus (HRP) Broad Spectrum Bulk Kit	O	1 Kit (500mL / 5000 Tests)	MON-APP117
Monosan Plus (HRP) Broad Spectrum Kit	O	1 Kit (60mL / 600 Tests)	MON-APP118
Monosan Plus (AP) Anti-Mouse (Fast Red) Kit	O	1 Kit (8mL / 80 Tests)	MON-APP119
Monosan Plus (AP) Anti-Mouse Bulk Kit	O	1 Kit (125mL / 1250 Tests)	MON-APP120
Monosan Plus (AP) Anti-Mouse Bulk Kit	O	1 Kit (500mL / 5000 Tests)	MON-APP121
Monosan Plus (AP) Anti-Mouse Kit	O	1 Kit (60mL / 600 Tests)	MON-APP122
Monosan Plus (HRP) Anti-Mouse (AEC) Kit	O	1 Kit (8mL / 80 Tests)	MON-APP123
Monosan Plus (HRP) Anti-Mouse (DAB) Kit	O	1 Kit (8mL / 80 Tests)	MON-APP124
Monosan Plus (HRP) Anti-Mouse Bulk Kit	O	1 Kit (125mL / 1250 Tests)	MON-APP125
Monosan Plus (HRP) Anti-Mouse Bulk Kit	O	1 Kit (500mL / 5000 Tests)	MON-APP126
Monosan Plus (HRP) Anti-Mouse Kit	O	1 Kit (60mL / 600 Tests)	MON-APP127
Monosan Plus (AP) Anti-Rabbit (Fast Red) Kit	O	1 Kit (8mL / 80 Tests)	MON-APP128
Monosan Plus (AP) Anti-Rabbit Bulk Kit	O	1 Kit (125mL / 1250 Tests)	MON-APP129
Monosan Plus (AP) Anti-Rabbit Bulk Kit	O	1 Kit (500mL / 5000 Tests)	MON-APP130
Monosan Plus (AP) Anti-Rabbit Kit	O	1 Kit (60mL / 600 Tests)	MON-APP131
Monosan Plus (HRP) Anti-Rabbit (AEC) Kit	O	1 Kit (8mL / 80 Tests)	MON-APP132
Monosan Plus (HRP) Anti-Rabbit (DAB) Kit	O	1 Kit (8mL / 80 Tests)	MON-APP133
Monosan Plus (HRP) Anti-Rabbit Bulk Kit	O	1 Kit (125mL / 1250 Tests)	MON-APP134
Monosan Plus (HRP) Anti-Rabbit Bulk Kit	O	1 Kit (500mL / 5000 Tests)	MON-APP135
Monosan Plus (HRP) Anti-Rabbit Kit	O	1 Kit (60mL / 600 Tests)	MON-APP136
Monosan (AP) Broad Spectrum (Fast Red) Kit	O	1 Kit (8mL / 80 Tests)	MON-APP137
Monosan (AP) Broad Spectrum Bulk Kit	O	1 Kit (125mL / 1250 Tests)	MON-APP138
Monosan (AP) Broad Spectrum Bulk Kit	O	1 Kit (500mL / 5000 Tests)	MON-APP139
Monosan (HRP) Broad Spectrum (AEC) Kit	O	1 Kit (8mL / 80 Tests)	MON-APP140
Monosan (HRP) Broad Spectrum (DAB) Kit	O	1 Kit (8mL / 80 Tests)	MON-APP141
Monosan (HRP) Broad Spectrum Bulk Kit	O	1 Kit (125mL / 1250 Tests)	MON-APP142
Monosan (HRP) Broad Spectrum Bulk Kit	O	1 Kit (500mL / 5000 Tests)	MON-APP143
Monosan Blockingsolution - SuperBlock	O	100 mL	MON-APP144
Monosan Peroxid-Block	O	8 mL	MON-APP145
Monosan Peroxid-Block	O	100 mL	MON-APP146
Monosan Peroxid-Block	O	500 mL	MON-APP147
Monosan Antibody Diluent	O	100 mL	MON-APP148
Monosan Antibody Diluent	O	500 mL	MON-APP149
Monosan Antibody Diluent B	O	25 mL	MON-APP150
Monosan Antibody Diluent B	O	100 mL	MON-APP151
Monosan Ficin	O	50 mL	MON-APP152
Monosan Pepsin	O	60 mL	MON-APP153
Monosan Pronase	O	250 mL	MON-APP154
Monosan Proteinase K	O	15 mL	MON-APP155
Monosan Proteinase K	O	50 mL	MON-APP156
Monosan Trypsin Pretreatment Kit	O	155 mL (125 mL Puffer. 30 mL Enzym)	MON-APP157
Monosan HIER Citrate Buffer pH 6,0 (10 X)	O	100 mL (for 1000 mL)	MON-APP159
Monosan HIER Citrate Buffer pH 6,0 (10 X)	O	500 mL (for 5000 mL)	MON-APP160
Monosan HIER Tris-EDTA Buffer pH 8,0 (10 X)	O	100 mL (for 1000 mL)	MON-APP161
Monosan HIER Tris-EDTA Buffer pH 8,0 (10 X)	O	500 mL (for 5000 mL)	MON-APP162
Monosan HIER Tris-EDTA Buffer pH 9,0 (10 X)	O	100 mL (for 1000 mL)	MON-APP163
Monosan HIER Tris-EDTA Buffer pH 9,0 (10 X)	O	500 mL (for 5000 mL)	MON-APP164
Monosan Wash Buffer (20 X)	O	500 mL (for 10 Liter)	MON-APP165
Monosan Wash Buffer (20 X)	O	2500 mL (for 50 Liter)	MON-APP166
Monosan PBS Buffer (Phosphate-Buffered Saline) (pH 7.4)	O	6 x 15mL (33x) (=3L)	MON-APP167
Monosan TRIS/HCL Buffer (pH 7.6)	O	250 mL	MON-APP168
Monosan AEC Single Solution	O	8 mL	MON-APP169
Monosan AEC Single Solution	O	125 mL	MON-APP170

MONOSAN® APPLICATIONS

Product	Application	Unit	Cat.#
Monosan AEC Substrate Kit	O	500 Tests (55 mL)	MON-APP171
Monosan AEC Substrate Kit	O	5000 Tests (515 mL)	MON-APP172
Monosan Permanent AEC Kit	O	2000 Tests (200 mL)	MON-APP173
Monosan DAB High contrast Kit	O	1 Kit (500 Tests)	MON-APP174
Monosan DAB High contrast Kit	O	1 Kit (5000 Tests)	MON-APP175
Monosan DAB Substrate Kit (Brown)	O	1 Kit (500 Tests)	MON-APP176
Monosan DAB Substrate Kit (Brown)	O	1 Kit (5000 Tests)	MON-APP177
Monosan DAB Substrate Buffer	O	500 mL	MON-APP178
Monosan Fast-Red Substrate Pack (11 Tablets, 11 x 5 mL Substrate Buffer)	O	1 Kit (550 Tests)	MON-APP179
Monosan Fast-Red Substrate Pack (25 Tablets, 125 mL Substrate Buffer)	O	1 Kit (1250 Tests)	MON-APP180
Monosan Fast-Red Substrate Pack (100 Tablets, 500 mL Substrate Buffer)	O	1 Kit (5000 Tests)	MON-APP181
Monosan New Fuchsin Kit	O	1 Kit (6 mL / 60 Tests)	MON-APP182
Monosan New Fuchsin Kit	O	1 Kit (125 mL / 1250 Tests)	MON-APP183
Monosan Permanent AP-Red Kit	O	1 Kit (125 mL / 1250 Tests)	MON-APP185
Monosan Permanent AP-Red Kit	O	1 Kit (500 mL / 5000 Tests)	MON-APP186
Monosan Methylgreen	O	500 mL	MON-APP187
Monosan Aqueous Mount	O	30 mL	MON-APP188
Monosan Aqueous Mount	O	60 mL	MON-APP189
Monosan PAP Pen	O	Each	MON-APP190
Monosan PAP Pen Mini	O	Each	MON-APP191
Monosan Biotinylated Secondary Antibody, anti-Rabbit	O	8 mL	MON-APP192
Monosan Biotinylated Secondary Antibody, anti-Mouse	O	8 mL	MON-APP193
Monosan Biotinylated Secondary Antibody, Broad Spectrum	O	8 mL	MON-APP194
Monosan Streptavidin-AP Conjugate	O	8 mL	MON-APP195
Monosan Streptavidin-HRP Conjugate	O	8 mL	MON-APP196
Monosan Fixo Gum (Rubber Cement)	O	50 g	MON-APP197
Monosan Tween 20 (50%)	O	20 mL	MON-APP198
Monosan Enzyme Diluent (for Streptavidin-AP and -HRP conjugates)	O	100 mL	MON-APP199
Monosan Link Diluent (for Secondary Antibodies)	O	100 mL	MON-APP200



TUF (Target Unmasking Fluid)

AN IDEAL PRETREATMENT FOR IMMUNOHISTOCHEMISTRY ON PARAFFIN SECTIONS

Action on paraffin sections comparable to pretreatment of Western blots (heating in SDS and mercapto-ethanol). Linearization of proteins by deproteinization and denaturation unmasks antigenic epitopes. After this pretreatment, a majority of monoclonal and polyclonal antibodies can be used for immunohistochemistry on paraffin sections.

Use:

- To reactivate invisible epitopes for moab's, in paraffin embedded tissue sections.
- To enhance performance of moab's and poab's on paraffin/ cryostat sections and cytological specimens. The usual concentration of antibodies can be diluted up to 10 or 100x more.

Result:

- All monoclonals and polyclonals tested so far showed optimal results in dilutions similar to the usual cryostat section protocols.

Preparation:

- Dilute the concentrated Target Unmasking Fluid 1:3 with de-ionized water.

Delivery:

- Bottle of 250 ml (Cat.no. T 10333)
- Bottle of 1 liter (Cat.no. T 10333 L)

Storage:

- 3x concentrated. Closed bottles have a guaranteed shelf life at room temp. of 2 years. Working solutions have a guaranteed quality for 48 hours.

Precautions:

- Do not swallow or inhale. TUF does NOT contain heavy metals.

PROCEDURE:

1. Mount tissue sections on organosilane coated slides
2. Bake sections at 56°C.
3. Deparaffinise sections in xylene and rehydrate in graded ethanol
4. Prepare TUF and place the slides in a coplin jar filled with TUF.
5. Incubate either in a microwave: 90°C for 2 x 5 minutes (1 pause to move the jar to a different section in the oven) or 10 minutes in a waterbath at 90°C.
6. Leave to cool for 15 minutes.
7. Rinse in 2 changes of de-ionized water and PBS.
8. Proceed with normal immunohistochemical staining.

ALUMINIUM CRYO TUBES FOR STORAGE IN LIQUID NITROGEN

- Tight sealing
- Autoclavable at +121°C.
- Suitable for deepfreezing at -196°C.
- Storage of tissue samples
- With screwcap and rubber ring insert

Product code	Total volume	Filling volume	Height	Diameter
PA6003	3 ml	2 ml	23 mm (15/16")	14.5 mm (9/16")
PA6015	15 ml	10 ml	29 mm (11/8")	30 mm (11/8")



General technical instructions for use

Introduction:

Monoclonal and polyclonal antibodies are used in a large variety of technical procedures. Methods to be selected are dependent on the specific demands and materials available. The methods given below may offer a basis, which can be adapted to local demands and available materials. See for further technical help: Current Protocols in Immunology, ed J.E. Coligan et al., J. Wiley & sons, New York 1991, ISBN 0-471-52276-7.

A. Method for ABC Technique using Monoclonal Antibodies on Frozen Sections

1. Air dry frozen sections for 60 minutes or overnight.
2. Fix sections in acetone for 10 minutes.
3. Air dry sections for 10 minutes.
4. Wash sections in 50mM Tris buffered saline pH 7.6 for 5 minutes.
5. Cover sections with blocking reagent eg 10% v/v normal rabbit serum in TBS for 10 minutes.
6. Remove excess blocking reagent and replace with primary antiserum diluted in blocking reagent as required (see datasheet), for 60 minutes at 25°C or overnight at 4°C.
7. Wash in TBS buffer for 2 x 5 minutes.
8. Remove excess TBS buffer and incubate sections with biotinylated rabbit anti-mouse secondary antibody diluted in blocking reagent for 30 minutes at 25°C.
9. Wash in TBS buffer for 2 x 5 minutes.
10. Remove excess TBS buffer and incubate sections with ABCComplex/HRP for 30 minutes at 25°C.
11. Wash in TBS buffer for 2 x 5 minutes.
12. Develop with 3 3' diaminobenzidine tetrahydrochloride (DAB).
13. Rinse slides in water.
14. Counterstain with Haematoxylin (if required).
15. Dehydrate, clear and mount sections with DPX mountant.

B. Method for ABC Technique using Polyclonal Antibodies on Frozen Sections

1. Air dry frozen sections for 60 minutes or overnight.
2. Fix sections in acetone for 10 minutes.
3. Air dry sections for 10 minutes.
4. Wash sections in 50mM Tris buffered saline pH 7.6 for 5 minutes.
5. Cover sections with blocking reagent eg 10% v/v normal swine serum in TBS for 10 minutes.
6. Remove excess blocking reagent and replace with primary antiserum diluted in blocking reagent as required (see datasheet), for 60 minutes at 25°C or overnight at 4°C.
7. Wash in TBS buffer for 2 x 5 minutes.
8. Remove excess TBS buffer and incubate sections with biotinylated swine anti-rabbit secondary antibody diluted in blocking reagent for 30 minutes at 25°C.
9. Wash in TBS buffer for 2 x 5 minutes.
10. Remove excess TBS buffer and incubate sections with ABCComplex/HRP for 30 minutes at 25°C.
11. Wash in TBS buffer for 2 x 5 minutes.
12. Develop with 3 3' diaminobenzidine tetrahydrochloride (DAB).

13. Rinse slides in water.
14. Counterstain with Haematoxylin (if required).
15. Dehydrate, clear and mount sections with DPX mountant.

C. Preparation and use of Zamboni's-fixed Frozen Sections in Immunohistochemistry

ZAMBONI'S FIXATIVE (PARAFORMALDEHYDE/PICRIC ACID)
SUGGESTED PREPARATION METHOD

1. Mix 20g paraformaldehyde with 150ml double-filtered, saturated aqueous picric acid.
2. Heat to 60°C in fume cupboard.
3. Add 2.52% sodium hydroxide in water, drop by drop, until solution is clear.
4. Filter solution and allow to cool.
5. Make up to 1000ml with phosphate buffer.
3.31g NaH₂PO₄ · H₂O
33.77g Na₂HPO₄ · 7H₂O
1000ml distilled H₂O
This fixative is stable at 25°C for 12 months.

PROCEDURES

1. Cut 7µm thick sections of frozen tissue and fix immediately in Zamboni's fixative for 10 minutes.
2. Wash 3 x 10 minutes in Tris buffered saline (pH 7.6).
3. Cover with normal rabbit serum for 10 minutes.
4. Remove excess serum, cover with primary antibody and incubate for time indicated on datasheet at 4°C.
5. Wash in Tris buffered saline (pH 7.6) for 2 x 5 minutes.
6. Cover with secondary antibody and incubate for 30 minutes at 25°C.
7. Wash in Tris buffered saline (pH 7.6) for 2 x 5 minutes.
8. Cover with ABC reagent and incubate for 30 minutes at 25°C.
9. Wash in Tris buffered saline (pH 7.6) for 2 x 5 minutes.
10. Develop with 3 3' diaminobenzidine tetrahydrochloride (DAB).
11. Counterstain.
12. Dehydrate, clear and mount sections.

REFERENCE

Stefanini M, De Martino C and Zamboni L. Fixation of ejaculated spermatozoa for electron microscopy. Nature. 216: 173-174 (1967).

D. Method for ABC Technique using Monoclonal Antibodies on Paraffin Sections

1. Deparaffinize sections and rehydrate to distilled water.
2. Place sections in 0.5% v/v hydrogen peroxide/methanol for 10 minutes.
3. Pretreat slides for antigen retrieval using the appropriate method eg High Temperature Antigen Unmasking, trypsin etc, if required.
4. Wash slides with distilled water for 5 minutes.
5. Wash slides in 50mM Tris-Buffered Saline (TBS) pH 7.6 for 5 minutes.
6. Cover sections with blocking reagent eg 10% v/v normal rabbit serum in TBS for 10 minutes.
7. Remove excess blocking reagent and replace with primary antiserum diluted in blocking reagent as required (see datasheet), for 60 minutes at 25°C or overnight at 4°C.
8. Wash in TBS buffer for 2 x 5 minutes.
9. Remove excess TBS buffer and incubate sections with biotinylated rabbit anti-mouse secondary antibody diluted in blocking reagent for 30 minutes at 25°C.
10. Wash in TBS buffer for 2 x 5 minutes.
11. Remove excess TBS buffer and incubate sections with ABCComplex/HRP for 30 minutes at 25°C.
12. Wash in TBS buffer for 2 x 5 minutes.
13. Develop with 3 3' diaminobenzidine tetrahydrochloride (DAB).
14. Rinse slides in water.
15. Counterstain with Haematoxylin (if required).
16. Dehydrate, clear and mount sections with DPX mountant.

E. Method for ABC Technique using Polyclonal Antibodies on Paraffin Sections

1. Deparaffinize sections and rehydrate to distilled water.
2. Place sections in 0.5% v/v hydrogen peroxide/methanol for 10 minutes.
3. Pretreat slides for antigen retrieval using the appropriate method eg High Temperature Antigen Unmasking, trypsin etc, if required.
4. Wash slides with distilled water for 5 minutes.
5. Wash slides in 50mM Tris-Buffered Saline (TBS) pH 7.6 for 5 minutes.
6. Cover sections with blocking reagent eg 10% v/v normal swine serum in TBS for 10 minutes.
7. Remove excess blocking reagent and replace with primary antiserum diluted in blocking reagent as required (see datasheet), for 60 minutes at 25°C or overnight at 4°C.
8. Wash in TBS buffer for 2 x 5 minutes.
9. Remove excess TBS buffer and incubate sections with biotinylated swine anti-rabbit secondary diluted in blocking reagent for 30 minutes at 25°C.
10. Wash in TBS buffer for 2 x 5 minutes.
11. Remove excess TBS buffer and incubate sections with ABCComplex/HRP for 30 minutes at 25°C.
12. Wash in TBS buffer for 2 x 5 minutes.
13. Develop with 3 3' diaminobenzidine tetrahydrochloride (DAB).
14. Rinse slides in water.
15. Counterstain with Haematoxylin (if required).
16. Dehydrate, clear and mount sections with DPX mountant.

F. High Temperature antigen Unmasking Technique using Sodium Citrate Buffer for Immunohistochemical Demonstration on Paraffin Sections

1. Cut and mount sections on slides coated with Vectabond* or Apes**.
2. Deparaffinize sections and rehydrate to distilled water.
3. Bring 1600ml 0.01M sodium citrate buffer (pH 6.0) to the boil in a Prestige stainless steel pressure cooker, using a hot plate. Cover but do not lock lid.
4. Position slides into metal staining racks and lower into pressure cooker ensuring slides are well immersed in citrate buffer. Lock lid. The small valve will rise.
5. When the pressure indicator valve (the large one) has risen after about 4 minutes, incubate sections for 1 minute.
6. Remove pressure cooker from heat source and run under cold water with lid on. When the small valve sinks open lid and remove slides and place immediately into distilled water. DO NOT OPEN LID UNTIL THE SMALL VALVE SINKS.
7. Wash sections in TBS buffer (pH 7.6) for 1 x 5 minutes.
8. Place sections in 1.5% hydrogen peroxide/methanol for 10 minutes.
9. Wash sections in distilled water for 2 x 5 minutes, then wash sections in TBS buffer for 2 x 5 minutes.
10. Place sections in normal serum for 20 minutes.
11. Cover sections with primary antibody. (The optimal dilution of the antibody, incubation time and incubation temperature should be determined by the individual laboratory).
12. Wash in TBS buffer for 2 x 5 minutes.
13. Incubate sections in secondary antibody for 30 minutes.
14. Wash in TBS buffer for 2 x 5 minutes.
15. Incubate slides in ABCComplex for 30 minutes.
16. Wash in TBS buffer for 2 x 5 minutes.
17. Incubate slides in DAB.
18. Wash in water for 2 x 5 minutes.
19. Counterstain with haematoxylin (if required), dehydrate, coverslip and mount.

*Vectabond: (Catalogue No SP1800) Vector Laboratories

**APES (3-aminopropyltriethoxysilane) (Catalogue No A3648) Sigma Immunochemicals

To avoid sections becoming detached, sections should be mounted on "Vectabond" or "APES" covered slides, then dried at 37°C overnight followed by drying at 56°C for 60 minutes.

G. High Temperature Antigen Unmasking Technique using EDTA for Immunohistochemical Demonstration on Paraffin Sections.

1. Cut and mount sections on slides coated with Vectabond* or Apes**.
2. Deparaffinize sections and rehydrate to distilled water.
3. Bring 1600ml 1mM EDTA (pH 8.0) to the boil in a Prestige stainless steel pressure cooker, using a hot plate. Cover but do not lock lid.
4. Position slides into metal staining racks and lower into pressure cooker ensuring slides are well immersed in 1mM EDTA. Lock lid. The small valve will rise.

5. When the pressure indicator valve (the large one) has risen after about 4 minutes, incubate sections for 1 minute.
6. Remove pressure cooker from heat source and run under cold water with lid on. When the small valve sinks open lid and remove slides and place immediately into distilled water. DO NOT OPEN LID UNTIL THE SMALL VALVE SINKS.
7. Wash sections in TBS buffer (pH 7.6) for 1 x 5 minutes.
8. Place sections in 1.5% hydrogen peroxide/methanol for 10 minutes.
9. Wash sections in distilled water for 2 x 5 minutes, then wash sections in TBS buffer for 2 x 5 minutes.
10. Place sections in normal serum for 20 minutes.
11. Cover sections with primary antibody. (The optimal dilution of the antibody, incubation time and incubation temperature should be determined by the individual laboratory).
12. Wash in TBS buffer for 2 x 5 minutes.
13. Incubate sections in secondary antibody for 30 minutes.
14. Wash in TBS buffer for 2 x 5 minutes.
15. Incubate slides in ABCComplex for 30 minutes.
16. Wash in TBS buffer for 2 x 5 minutes.
17. Incubate slides in DAB.
18. Wash in water for 2 x 5 minutes.
19. Counterstain with haematoxylin (if required), dehydrate, coverslip and mount.

*Vectabond: (Catalogue No SP1800) Vector Laboratories

**APES (3-aminopropyltriethoxysilane) (Catalogue No A3648) Sigma Immunochemicals

To avoid sections becoming detached, sections should be mounted on "Vectabond" or "APES" covered slides, then dried at 37°C overnight followed by drying at 56°C for 60 minutes.

H. Trypsin Digestion of Formalin-Fixed, Paraffin-Embedded Tissues Prior to Immunohistochemistry

1. Preheat the following to 37°C using a water bath:
200ml of TBS
200ml of distilled water.
2. Dissolve 0.2g Trypsin 250 and 0.2g Calcium Chloride in the 200ml of TBS.
3. Once the trypsin solution is at 37°C, pH to 7.8 with 1M sodium hydroxide.
4. Place rehydrated paraffin sections in the distilled water to preheat the sections to 37°C for a minimum of 5 minutes.
5. Incubate sections in trypsin solution at 37°C. The time required will depend on the antibody and tissue, however, 30 minutes is usually sufficient.
6. Rinse sections in running tap water.
7. Proceed with immunohistochemistry protocol.

NB. Trypsin containing chymotrypsin should always be used. The enzyme activities can vary from a supplier and between batches. Such variations may affect the incubation time required.

I. Method for ABC Technique using Monoclonal Antibodies on Cultured Cells Grown on Glass Cover Slips

1. Cells are grown as monolayers on acid-washed, dH₂O-rinsed, sterile glass cover slips or slides. It may be necessary in some cases to coat cover slips or slides with poly L-lysine.
2. Wash attached cells in PBS for 5 minutes.
3. Fix cells in a fixative eg 1% v/v paraformaldehyde in PBS or Acetone or Zamboni's (the fixative of choice may depend on the antigen recognised) for 10 minutes.
4. Wash cells in PBS for 2 x 5 minutes.
5. Cover slips may be attached to glass slides using suitable adhesive, eg Loctite Glassbond, for convenience.
6. If required, permeabilise cells using 0.25% v/v Triton in PBS for 20 minutes.
7. Wash cells in PBS for 2 x 5 minutes.
8. Cover sections with blocking reagent, eg 10% normal rabbit serum in PBS, for 10 minutes.
9. Remove excess blocking reagent and replace with primary antiserum pre-diluted in blocking reagent for 60 minutes at 25°C or overnight at 4°C, according to the data sheet.
10. Rinse in PBS for 2 x 5 minutes.
11. Remove excess PBS and cover with biotinylated rabbit anti-mouse secondary diluted with blocking reagent for 30 minutes at 25°C.
12. Rinse in PBS for 2 x 5 minutes.
13. Remove excess PBS and cover with ABCComplex/HRP for 30 minutes at 25°C.
14. Rinse in PBS for 2 x 5 minutes.
15. Develop with 3 3' diaminobenzidine tetrahydrochloride (DAB).
16. Rinse slides in water.
17. Counterstain with Haematoxylin (if required).
18. Dehydrate, clear and mount sections with DPX mountant.

J. Description of Methods for the Use of Monosan Antibodies in Direct Flow Cytometry

Surface Staining:

1. Prepare cell suspension in PBS.
2. Add 10µl of antibody to 90µl of the cell suspension. Antibodies have been pre-titrated to provide optimum staining. Incubate for 30 minutes at 4°C (An appropriate isotype control is recommended).
3. Wash twice in PBS or Isoton. Resuspend in 300µl PBS for analysis.
4. For the detection of Biotin-conjugated antibodies add 100µl of pre-titrated avidin or streptavidin-fluorochrome conjugate. Incubate for 30 minutes at 4°C and wash prior to analysis.

Intracellular Staining:

1. Prepare cell suspension in PBS (containing 0.5% (w/v) saponin). Prepare fresh saponin solution on day of use.
2. Add 10µl of appropriate antibody to 90µl of the cell suspension. Antibodies have been pre-titrated to provide optimum staining. Incubate for 30 minutes at 4°C. An appropriate isotype control is recommended.
3. Wash twice in PBS or Isoton. Resuspend in 300µl PBS for analysis.

- For the detection of Biotin-conjugated antibodies add 100µl of pre-titred avidin or streptavidin-fluorochrome conjugate. Incubate for 30 minutes at 4°C and wash prior to analysis.

Dual Labelling:

- Prepare cell suspension in PBS (containing 0.5% (w/v) saponin if either antigen is internal).
- Add 10µl of appropriate Biotin-conjugated antibody to 90µl of the cell suspension, then add 10µl of the FITC-conjugated second antibody and mix. (Antibodies have been pre-titred to provide optimum staining). Incubate for 30 minutes at 4°C. Appropriate isotype controls are recommended.
- Wash twice in PBS or Isoton. Add 100µl of pre-titred avidin or streptavidin-fluorochrome conjugate. Incubate for 30 minutes at 4°C.
- Wash twice in PBS. Resuspend in 300µl PBS for analysis.

References:

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- Rigg K M, Shenton B K, Murray I A, et al.. A flow cytometric technique for simultaneous analysis of human mononuclear cell surface antigens and DNA. *Journal of Immunological Methods*. 123: 177-184 (1989).
- Hirata M, and Okamoto Y. Enumeration of terminal deoxynucleotidyl transferase positive cells in leukaemia/lymphoma by flow cytometry. *Leukemia Research*. 11: 509-518 (1987).

K. Description of Methods for the Use of Monosan Antibodies in Indirect Flow Cytometry

Surface Staining:

- Prepare cell suspension in PBS.
- Add 10µl of antibody at various dilutions eg 1:10 upwards to 90µl of cell suspension. Incubate for 30 minutes at 4°C (an isotype control is recommended).
- Wash twice in PBS.
- Add secondary FITC Ab (or equivalent) in PBS. Incubate for 30 minutes at 4°C.
- Wash twice with PBS.
- Resuspend in 300µl of PBS for analysis.

Intracellular Staining:

- Prepare cell suspension in PBS (containing 0.5% (w/v) saponin).
- Add 10µl of antibody at various dilutions eg 1:10 upwards to 90µl of cell suspension. Incubate for 30 minutes at 4°C (an isotype control is recommended).
- Wash twice in PBS.
- Add secondary FITC Ab (or equivalent) in PBS. Incubate for 30 minutes at 4°C.
- Wash twice with PBS.
- Resuspend in 300µl of PBS for analysis.

L. Method for Use of Antibodies in Western Blotting

Electrophoresis and Transfer:

- Prepare and run appropriate strength SDS polyacrylamide gels. Stop electrophoresis just before dye front migrates off the end of the gel, thus allowing orientation after removal of the stacking gel.
- Equilibrate gel in ice-cold transfer buffer for 5 minutes.
- Prepare blot sandwich with three pieces of blotting paper (Sigma, P4556) each slightly larger than the gel soaked in transfer buffer and laid on top of one another. Place a piece of nitrocellulose (eg Amersham Hybond C extra) of similar size onto the filter paper; the nitrocellulose should have a blue biro line ruled along one of the long edges and be prewetted with transfer buffer.
- Carefully place the gel onto the nitrocellulose, taking care to avoid trapping air bubbles. Align the dye front with the pen line on the nitrocellulose. Complete the sandwich with three sheets of soaked blotting paper. Run the transfer at a constant current of approximately 60 mA per minigel for 30 minutes.

Blocking:

- Disassemble sandwich and remove excess nitrocellulose. Remove strip of nitrocellulose containing standards and stain as desired for protein. Place rest of sheet in block buffer (10% (w/v) non-fat dried milk in rinse buffer (RB) for 60 minutes at 25°C or overnight at 4°C.
- Discard block buffer and rinse sheet briefly with RB.

Primary Antibody Incubation:

- Make appropriate dilutions of antibody in antibody dilution buffer (10% (v/v) FCS in RB).
- Place nitrocellulose in antibody dilution and incubate at 25°C for 60 minutes with gentle agitation. This may conveniently be performed in a disposable 30ml universal tube on a tube roller.
- Rinse nitrocellulose in RB for 3 x 5 minutes.

Secondary Antibody Incubation:

- Dilute appropriate conjugated secondary antibody in antibody dilution buffer. Alkaline phosphatase conjugates are recommended and described. Alternative conjugates and methods, eg HRP, biotin, ECL should be performed according to manufacturers instructions.
- Incubate nitrocellulose with diluted secondary for 60 minutes at 25°C with gentle agitation as above.
- Rinse nitrocellulose 3 x 5 minutes with RB.
- Rinse nitrocellulose 2 x 5 minutes with alkaline phosphatase buffer (APB).

Visualisation:

- Place 10ml APB in a disposable 30ml universal tube. Add 33µl BCIP* solution and 66µl NBT** solution and mix by gentle inversion.
- Place nitrocellulose in a clean plastic tray. Pour developer solution over nitrocellulose and leave until bands have developed. This may take from a few seconds to several minutes.

3. Stop the reaction by rinsing the nitrocellulose in 10% (v/v) acetic acid and allow to air dry at 25°C prior to storage/photography.

*BCIP (5-Bromo-4-Chloro-3-Indolyl Phosphate (p-toluidine salt)). Store at –20°C. in small aliquots as a 50 mg/ml solution in 100% dimethyl formamide.

** NBT (Nitro-blue Tetrazolium). Store at –20°C in small aliquots as 50 mg/ml solution in 70% (v/v) dimethyl formamide in dH₂O.

M. Storage of Lyophilised Antibodies

Store unopened lyophilised antibody at 4°C. The reconstituted antibody is stable for at least two months when stored at 4°C. For long term storage, it is recommended that aliquots of the antibody are frozen at –20°C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use.

N. Storage of Antibodies in Soluble Form

Store liquid antibody at 4°C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. Prepare working dilutions on the day of use.

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