

IHC assays at Crown Bioscience Germany

CDx = Companion Diagnostic, IVD = *In Vitro* Diagnostic

#	Target	Antibody Name	Clone	Host species	Vendor	Status	Staining platform	mIHC	Comment
1	α SMA	Actin, Smooth Muscle	1A4	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
2	AKT	AKT (pan)	C67E7	rb	Cell Signaling Technology		Ventana Discovery Ultra		
3	phospho-AKT	p-AKT (phospho S473)	D9E	rb	Cell Signaling Technology		Ventana BenchMark Ultra		
4	ALK	ALK	D5F3	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
5	Annexin A2	Annexin A2	D11G2	rb	Cell Signaling Technology		Ventana Discovery Ultra		
6	Annexin V	Annexin V	EPR3979	rb	Abcam		Ventana Discovery Ultra		
7	AR	Androgen Receptor	SP107	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
8	ARID1A	ARID1A	EPR13501	rb	Abcam		Ventana BenchMark Ultra / Leica Bond RX	Yes	
9	Arginase 1	Arginase 1	EPR6672(B)	rb	Abcam		Ventana Discovery Ultra		
		Arginase 1	SP156	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
10	ATM	ATM	Y170	rb	Abcam		Ventana BenchMark Ultra / s.a Leica Bond RX	Yes	
11	ATRX	ATRX	polyclonal; #760-7171	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
12	Axl	Axl	C89E7	rb	Cell Signaling Technology		Ventana Discovery Ultra		
13	β -Catenin	Beta-Catenin	14	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
14	B7H3	B7-H3 / CD276	D9M2L	rb	Cell Signaling Technology		Leica Bond RX	Yes	
15	B7H4	B7H4	EPR20236	rb	Abcam		Leica Bond RX		
16	BCAM	CD239 / BCAM	EPR4165	rb	Abcam		Leica Bond RX	Yes	

#	Target	Antibody Name	Clone	Host species	Vendor	Status	Staining platform	mIHC	Comment
17	Bcl-2	Bcl-2	124	ms	Dako / Agilent		Ventana Discovery Ultra		IVD antibody
		bcl-2	SP66	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
18	BRAF V600E	BRAF V600E	VE1	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
19	BrdU	BrdU	BU1/75	rt	Abcam		Ventana Discovery Ultra		
20	c-Kit	c-Kit (Pathway)	9.7	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
21	c-Met	c-Met (Confirm)	SP44	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
22	c-MYC	c-MYC / CD117	Y69	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
23	CA19-9	CA19-9	121SLE	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
24	CA-125	CA-125	OC125	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
25	cCasp3	Cleaved Caspase-3 (D175)	5A1E	rb	Cell Signaling Technology		Leica Bond RX	Yes	
26	CD3	CD3 (Confirm)	2GV6	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra / s.a. Leica Bond RX	Yes	IVD assay, tested on various tissues by vendor
27	CD4	CD4 (Confirm)	SP35	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra / s.a. Leica Bond RX	Yes	IVD assay, tested on various tissues by vendor
28	CD7	CD7	SP94	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
29	CD8	CD8	SP16	rb	DCS		Leica Bond RX	Yes	IVD antibody
		CD8 (Confirm)	SP57	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
30	CD11b	CD11b / ITGAM	SP331	rb	Abcam		Leica Bond RX	Yes	
31	CD11c	CD11c	5D11	ms	Leica	IVD	Leica Bond RX	Yes	IVD antibody
32	CD15	CD15 (Confirm)	MMA	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra	Yes	IVD assay, tested on various tissues by vendor
33	CD16	CD16	SP175	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
34	CD19	CD19	BT51E	ms	Leica	IVD	Leica Bond RX		IVD antibody
35	CD20*	CD20 (Confirm)	L26	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra / Leica Bond RX	Yes	IVD assay, tested on various tissues by vendor *Regular CAP proficiency tests at CBGE
36	CD31 / PECAM-1	CD31	JC70A	ms	Dako / Agilent		Ventana Discovery Ultra		IVD antibody
		CD31	JC70	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
37	CD33	CD33	SP266	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
38	CD38	CD38	SP149	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
39	CD45	CD45 / LCA (Confirm)	2B11 & PD7/26	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor

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40	CD45RO	CD45RO	UCHL1	ms	Leica		Leica Bond RX		
41	CD47	CD47	D3O7P	rb	Cell Signaling Technology		Leica Bond RX	Yes	
42	CD56	CD56	MRO-42	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
		CD56 / NCAM	CD564	ms	Leica	IVD	Leica Bond RX	Yes	IVD antibody
43	CD61	CD61	2f2	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
44	CD68	CD68	514H12	ms	Leica	IVD	Leica Bond RX	Yes	IVD antibody, in mIHC combination assay with CD163
		CD68	PG-M1	ms	Thermo Fisher Scientific		Leica Bond RX	Yes	
45	CD69	CD69	EPR21811	rb	Abcam		Ventana BenchMark Ultra / Leica Bond RX	Yes	
46	CD71	CD71	MRO-48	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
47	CD73	NT5E / CD73	D7F9A	rb	Cell Signaling Technology		Leica Bond RX		
48	CD99	CD99 (Confirm)	O13	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
49	CD117	CD117 / c-Kit	EP10	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
50	CD133 / Prom1	CD133 / Prominin	D4W4N	rb	Cell Signaling Technology		Leica Bond RX		
51	CD137 / 4-1BB	CD137	EPR20238	rb	Abcam		Ventana BenchMark Ultra / s.a. Leica Bond RX		
52	CD155 / PVR	CD155 / PVR	D8A5G	rb	Cell Signaling Technology		Ventana BenchMark Ultra		
53	CD163	CD163	MRO-26	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra / Leica Bond RX	Yes	IVD assay, tested on various tissues by vendor, in mIHC combination assay with CD163
		CD163	SP98	rb	Abcam		Ventana Discovery Ultra		
54	CD278 / ICOS	CD278 / ICOS	SP98	rb	Abcam		Ventana Discovery Ultra		
55	CD303 / BDCA2	CD303 / BDCA2	AC144	ms	Milteny Biotec		Ventana Discovery Ultra		
56	CDC2	cdc2	E1Z6R	rb	Cell Signaling Technology		Leica Bond RX	Yes	
57	phospho-CDC2	"p-CDC2 / phospho-cdc2 (phospho-Y15)"	10A11	rb	Cell Signaling Technology		Leica Bond RX	Yes	
58	CDH6	Cadherin 6	2B6	ms	Thermo Fisher Scientific		Ventana BenchMark Ultra	Yes	
59	CEACAM5	CEA / CD66e	CEA31	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
60	CgA	Chromogranin A	LK2H10	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra / Leica Bond RX	Yes	IVD assay, tested on various tissues by vendor, in mIHC combination assay with Syp
61	Claudin-4	Claudin-4	EP417	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor

#	Target	Antibody Name	Clone	Host species	Vendor	Status	Staining platform	mIHC	Comment
62	Claudin-18	CLDN18 (RxDx)	43-14A	ms	Roche / Ventana	IVD, CDx	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
63	Cyclin A2	Cyclin A2	EPR17351	rb	Abcam		Leica Bond RX	Yes	
64	Cyclin D1	Cyclin D1	SP4-R	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
		Cyclin D1	SP4-R	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
65	pan-Cytokeratin	Cytokeratin (pan)	AE1 + AE3 + 5D3	ms	Abcam		Leica Bond RX	Yes	
		pan Keratin	AE1 + AE3 + PCK26	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
66	DLL3	DLL3	SP347	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
67	DNA-PKcs	DNA-PKcs	E6U3A	rb	Cell Signaling Technology		Leica Bond RX	Yes	
68	E-Cadherin	E-Cadherin	36	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
69	EGFR	EGF Receptor	D38B1	rb	Cell Signaling Technology		Ventana Discovery Ultra		
70	EphA2	EphA2	D4A2	rb	Cell Signaling Technology		Ventana Discovery Ultra		
71	Ep-CAM	Ep-CAM / Epithelial Specific Antigen	Ber-EP4	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
72	ER*	Estrogen Receptor (Confirm)	SP1	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor *Regular CAP proficiency tests at CBGE
73	FAP	Fibroblast activation protein, alpha	SP325	rb	Abcam		Ventana Discovery Ultra		
74	FGFR-1	FGFR1	D8E4	rb	Cell Signaling Technology		Ventana Discovery Ultra		
75	FGFR-2	FGFR2	D4H9	rb	Cell Signaling Technology		Ventana Discovery Ultra		
75	FGFR-2	FGFR2	D4H9	rb	Cell Signaling Technology		Ventana Discovery Ultra		
76	FGFR-3	FGFR3	C51F2	rb	Cell Signaling Technology		Ventana Discovery Ultra		
77	FGFR-4	FGFR4	A-10	ms	Santa Cruz Biotechnology		Ventana Discovery Ultra		
78	FOLR1	FOLR1 (RxDx) / FRα	FOLR1-2.1	ms	Roche / Ventana	IVD, CDx	Ventana BenchMark Ultra	Yes	IVD assay, tested on various tissues by vendor
79	Foxp3	FOXP3	SP97	rb	Abcam		Leica Bond RX	Yes	
		FOXP3	236A/E7	ms	Leica		Leica Bond RX	Yes	IVD antibody
80	Galectin-3	Galectin-3	9C4	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
81	GATA3	GATA3	L50-823	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
82	Geminin	Geminin	EPR14637	rb	Abcam		Leica Bond RX	Yes	
83	GFAP	Glial Fibrillary Acidic Protein	EP672Y	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
84	Glutaminase	GLS	EP7212	rb	Abcam		Ventana BenchMark Ultra		
85	GLUT1	GLUT1	polyclonal; #760-4526	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor

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86	Glypican 3	Glypican 3	GC33	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
87	Granzyme B	Granzyme B	polyclonal; #760-4283	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra / Leica Bond RX	Yes	IVD assay, tested on various tissues by vendor
88	γ H2AX / gamma-H2AX	p-Histone H2A.X (phospho S139)	20E3	rb	Cell Signaling Technology		Leica Bond RX	Yes	
89	Hep-Par1	Hepatocyte Specific Antigen / CPS1	OCH1E5	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
90	HER2 Dual ISH*	HER2 Dual ISH (Inform)	n/a	n/a	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor *Regular CAP proficiency tests at CBGE
91	Her2 / ErbB2 / neu*	HER-2 / neu (Pathway)	4B5	rb	Roche / Ventana	IVD, CDx	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor *Regular CAP proficiency tests at CBGE
92	phospho-Her2	p-HER-2 (phospho Y1196)	D66B7	rb	Cell Signaling Technology		Ventana BenchMark Ultra		
93	Her3 / ErbB3	Her-3	D22C5	rb	Cell Signaling Technology		Ventana Discovery Ultra		
94	phospho-Her3	p-HER-3 (phospho Y1289)	21D3	rb	Cell Signaling Technology		Ventana Discovery Ultra		
95	HIF-1 α	HIF-1 α	EP1215Y	rb	Abcam		Ventana BenchMark Ultra		
96	HIF-2 α	HIF-2 α	ep190b	ms	Abcam		Ventana BenchMark Ultra		
97	HLA class I / MHC I	HLA Class 1 ABC	EMR8-5	ms	Abcam		Ventana BenchMark Ultra		
98	HLA class II / MHC II	HLA DR+DP+DQ	CR3/43	ms	Abcam		Ventana BenchMark Ultra / Leica Bond RX	Yes	
99	HLA-E	HLA E	MEM-E/02	ms	Abcam		Ventana BenchMark Ultra		
100	HSP 90	HSP90	C45G5	rb	Cell Signaling Technology		Ventana Discovery Ultra		
101	IDH1 R132H	IDH1 R132H	MRQ-67	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
102	IDO1	IDO1	SP260	rb	Abcam		Ventana Discovery Ultra		
103	IFN- γ	IFN-g	EPR1108	rb	Abcam		Ventana Discovery Ultra		
104	Ki-67*	Ki-67 (Confirm)*	30-9	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra / Leica Bond RX	Yes	IVD assay, tested on various tissues by vendor *Regular CAP proficiency tests at CBGE
		Ki-67	MIB-1	ms	Dako / Agilent		Leica Bond RX	Yes	IVD antibody, tested on various tissues by vendor
105	LAG-3	CD223 / LAG-3	17B4	ms	NovusBio		Ventana BenchMark Ultra	Yes	
106	LCN2	Lipocalin-2 / NGAL	EPR19912	rb	Abcam		Ventana BenchMark Ultra		
107	LRRC15	LRRC15	EPR8188	rb	Abcam		Ventana Discovery Ultra		
108	LY6K	Ly-6K	EPR23021-61	rb	Abcam		Ventana Discovery Ultra		
109	MAGE-A3	MAGE3	EPR19065	rb	Abcam		Ventana BenchMark Ultra		
110	MART-1	MART-1/melan A	A103	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor

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111	phospho-MEK 1/2	p-MEK 1/2 (phospho S221)	166F8	rb	Cell Signaling Technology		Ventana Discovery Ultra		
112	Melanoma Triple Cocktail	Melanoma Triple Cocktail	HMB45 + A103 + T311	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
113	Mesothelin / MSLN	Mesothelin	SP74	rb	Abcam		Ventana Discovery Ultra		
		MSLN (Dx)			Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
114	MLH1	MLH1 (MMR panel)	M1	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
115	MPO	Myeloperoxidase	polyclonal; #760-2659	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
116	MSH2	MSH2 (MMR panel)	G219-1129	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
117	MSH6	MSH6 (MMR panel)	SP93	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
118	mTOR	mTOR	7C10	rb	Cell Signaling Technology		Ventana Discovery Ultra		
119	phospho-mTOR	p-mTOR (phospho S2448)	49F9	rb	Cell Signaling Technology		Ventana Discovery Ultra		
120	MUC-1	MUC1 / Mucin 1	H23	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
121	MUC-16	MUC16	EPR1020(2)	rb	Abcam		Leica Bond RX		
122	NaPi2b	SLC34A2	SP322	rb	Abcam		Ventana BenchMark Ultra	Yes	
123	p16 ^{INK4A} / CDKN2A	CINtec p16 Histology	E6H4	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
124	p21	p21WAF1	DCS-60.2	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra	Yes	IVD assay, tested on various tissues by vendor
125	p120 catenin	p120 catenin	98	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
126	p53	p53 (Confirm)	DO-7	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra / Leica Bond RX	Yes	IVD assay, tested on various tissues by vendor
127	p63	p63	4A4	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
128	p70 S6 Kinase	p70 S6 Kinase (N-term)	E343	rb	Abcam		Ventana Discovery Ultra		
129	phospho-p38-MAPK	p-p38 MAPK (phospho T180/Y182)	12F8	rb	Cell Signaling Technology		Ventana Discovery Ultra		
130	p44/42 MAPK / ERK1/2	p44/42-MAPK (ERK1/2)	137F5	rb	Cell Signaling Technology		Ventana Discovery Ultra		
131	phospho-p44/42 MAPK	p-p44/42 MAPK (phospho T202/Y204)	D13.14.4E	rb	Cell Signaling Technology		Ventana BenchMark Ultra		
132	PARP1	PARP	46D11	rb	Cell Signaling Technology		Ventana Discovery Ultra		
133	PAX-8	PAX-8	SP348	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
134	PCNA	PCNA	EPR3821	rb	Abcam		Ventana Discovery Ultra		
135	ub-PCNA	Ubiquityl-PCNA (Lys164)	D5C7P	rb	Cell Signaling Technology		Ventana Discovery Ultra		
136	PD-1	PD-1	NAT105	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra / Leica Bond RX	Yes	IVD assay, tested on various tissues by vendor

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137	PD-L1*	PD-L1*	SP263	rb	Roche / Ventana	IVD, CDx	Ventana BenchMark Ultra / Leica Bond RX	Yes	IVD assay, tested on various tissues by vendor *Regular CAP proficiency tests at CBGE
		PD-L1 pharmDx	22C3	ms	Dako / Agilent	IVD, CDx	Dako Autostainer Link 48		IVD assay, tested on various tissues by vendor
		PD-L1 pharmDx	28-8	rb	Dako / Agilent	IVD, CDx	Dako Autostainer Link 48		IVD assay, tested on various tissues by vendor
		PD-L1	SP142	rb	Roche / Ventana	IVD, CDx	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
138	PD-L2	PD-L2	D7U8C	rb	Cell Signaling Technology		Ventana Discovery Ultra		
139	Perforin	Perforin	MRQ-23	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
140	PLAP	PLAP	NB10	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
141	Pmel17	Melanoma Marker	HMB45	ms	Leica	IVD	Leica Bond RX	Yes	IVD antibody
142	PMS2	PMS2 (MMR panel)	A16-4	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
143	PR*	Progesterone Receptor / PgR (Confirm)	1E+2	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor *Regular CAP proficiency tests at CBGE
144	PRAME	PRAME	EPR20330	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
145	PSA	Prostate Specific Antigen (Confirm)	polyclonal; #760-2506	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
146	PSAP	PSAP	PASE/4LJ	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
147	PSMA	PSMA	EP192	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra / Leica Bond RX	Yes	IVD assay, tested on various tissues by vendor
148	PTEN	PTEN	138G6	rb	Cell Signaling Technology		Ventana Discovery Ultra		
		PTEN	SP218	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
149	Rad51	Rad51	EPR4030(3)	rb	Abcam		Leica Bond RX	Yes	
150	ROS1	ROS1	SP384	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
151	phospho-S6	p-S6 (phospho S240/244)	D68F8	rb	Cell Signaling Technology		Ventana Discovery Ultra		
152	S100	S100 (Confirm)	4C4.9	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
153	Sez6	Sez6	EPR28518-55	rb	Abcam		Leica Bond RX		
154	phospho-SMAD3	p-SMAD3 (phospho S423 + S425)	EP823Y	rb	Abcam		Ventana BenchMark Ultra		
155	SOX-10	SOX-10	SP267	rb	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
156	SSTR2	Somatostatin Receptor 2	UMB1	rb	Abcam		Ventana BenchMark Ultra / Ventana Discovery Ultra		
157	phospho-STAT3	p-Stat3 (phospho Y705)	D3A7	rb	Cell Signaling Technology		Ventana BenchMark Ultra		

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158	Syp	Synaptophysin (Confirm)	SP11	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra / Leica Bond RX	Yes	IVD assay, tested on various tissues by vendor, in mIHC combination assay with CgA
159	TAG-72	TAG-72	CC49	ms	Origene		Ventana Discovery Ultra		
		TAG-72	B72.3	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
160	TF / CD142	Tissue Factor / CD142	E9M6T	rb	Cell Signaling Technology		Ventana Discovery Ultra / Leica Bond RX	Yes	
161	TIM3	TIM3	D5D5R	rb	Cell Signaling Technology		Ventana BenchMark Ultra / Leica Bond RX	Yes	
162	TNF- α	TNF- α	52B83	ms	Abcam		Ventana BenchMark Ultra		
163	Trk (pan)	pan-TRK	EPR17341	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
164	TrkB / NTRK2	TrkB	80G2	rb	Cell Signaling Technology		Ventana Discovery Ultra		
165	TROP2	TROP2	EPR20043	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
		TROP2	EPR20043	rb	Abcam		Ventana Discovery Ultra	Yes	
166	TRPS1	TRPS1	SP532	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
167	TTF-1	Thyroid Transcription Factor-1	SP141	rb	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
168	phospho-Tyrosine	p-Tyrosine	p-Tyr-100	ms	Cell Signaling Technology		Ventana Discovery Ultra		
169	VE-Cadherin / CDH5	VE-Cadherin	16B1	ms	Thermo Fisher Scientific		Ventana Discovery Ultra		
170	VEGFR-1	VEGFR-1	Y103	rb	Abcam		Ventana BenchMark Ultra		
171	VEGFR-2	VEGFR-2	55B11	rb	Cell Signaling Technology		Ventana BenchMark Ultra		
172	Vimentin	Vimentin (Cornfirm)	V9	ms	Roche / Ventana	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor
173	Vitronectin	Vitronectin	EP781Y	rb	Abcam		Ventana Discovery Ultra		
174	WT-1	WT1	6F-H2	ms	Roche / Cell Marque	IVD	Ventana BenchMark Ultra		IVD assay, tested on various tissues by vendor

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