

Antibody	Clone	Supplier/Catalog #	Notes
2SC	Polyclonal	Discovery Antibodies crb2005017e/6773	For Interest
5-HMC	Polyclonal	Active Motif 39769	Research
5-methylcytosine	33D3	Millipore Sigma MABE146	Research
ABCD3	Polyclonal	Millipore Sigma HPA032027	Research
ACSS3	Polyclonal	Millipore Sigma HPA047956	Research
ACTH	02A3	Dako M3501	Clinical
ACTN2 (a-Actinin2)	Polyclonal	ThermoFisher (Invitrogen) PA5-27863	Research, Mouse-Specific
ADFP (PLIN2)	Polyclonal	Abcam ab52356	Research
Adipophilin	Polyclonal	Cell Marque 393A-18	Clinical
AE1	AE1	Biolegend 914001	Clinical
AE1-3	AE1/AE3	Leica AE1/AE3-601-L-CE	Clinical
AHSP	Polyclonal	Boster Biological Technology A05948	Research
AKT	c67E7	Cell Signaling 4691	Research
ALDH	44/ALDH	BD 611194	Research
ALDH1A1	Polyclonal	Millipore Sigma HPA002123	Research
ALDH1A1	D9Q8E	Cell Signaling 54135S	Research
ALK (CDX)	D5F3	Roche 790-4796	Clinical-Companion Diagnostic
Alk1	ALK1	Dako M7195	Clinical
Alpha1AntiTrypsin	Polyclonal	Dako A0012	Clinical
AlphaFeto Protein	Polyclonal	Dako A0008	Clinical
Amyloid A	MC1	Dako M0759	Clinical
Amyloid P	Polyclonal	Biocare PP 132 AA	Clinical
Androgen Receptor	AR27	Leica AR-318-L-CE	Clinical
Annexin A1	D5V2T	Cell Signaling 32934S	Clinical
Anti-Muscle Actin (anti-mouse)	EP184E	Abcam ab46805	Research Mouse-Specific
Anti-Tissue Factor (anti-mouse)	EPR8986	Abcam ab151748	Research Mouse-Specific
Arginase-1	EP261	Biocare API 3058 AA	Clinical
Arginase-1	SP156	Cell Marque 380R-18	Research
ARID1A	EP303	Epitomics AC-0275A	Clinical
Aspergillus	Polyclonal	Acris PAB13893	Research
ATF4	3E4C5	Proteintech 60035-1-1g	Research
ATM	Y170	Abcam ab32420	Research

ATRX	BSB-108	Bio SB BSB 3294	Clinical
ATRX	Polyclonal	Millipore Sigma HPA001906	Research
Aurora A (Aurka)	4G10	Thermo Fisher MA5-15804	Research
Bap1	BSP-109	Bio SB BSB 3302	Clinical
B-catenin (anti-mouse)	Polyclonal	Cell Signaling 9562	Research Mouse-Specific
BCL1	SP4	Cell Marque 241R-18	Clinical
BCL10	331.3	Santa Cruz sc-5273	Clinical
BCL2	124	Dako M0887	Clinical
BCL6	PG-B6p	Dako IR62561	Clinical
BCMA	E6D7B	Cell Signaling 88183S	Research
BCMA	VICKY-1	Novus NBP1-97637	Research
BerEp4 (Epcam)	Ber-EP4	Dako M0804	Clinical
Beta Catenin	14/Beta-Catenin	BD Biosciences 610154	Clinical
BOB-1	TG14	Leica BOB-1-L-A	Clinical
Brachyury	1H9A2	Thermo Fisher MA5-17185	Clinical
BRAF V600E (CDx)	VE1	Roche 790-4855 or 790-5095	Clinical-Companion Diagnostic
BRCA1	MS110	Millipore Sigma OP92-100UG	Research
BRD2	EPR7642	Abcam ab139690	Research
BRD4	EPR5150(2)	Abcam ab128874	Research
BRD4	Polyclonal	Bethyl A301-985A50	Research
BRG1 (see SMARCA4)			Clinical
BRST2 (GCDFP)	D6	Biolegend 915101	Clinical
BRST3	B72.3	Biolegend 915201	Clinical
C4d	Polyclonal	ARP #12-5000	Research
CA125	OC125	Cell Marque 325M-18	Clinical
CA19-9	C241:5:1:4	Leica PA0424	Research
CAIX	TH22	Leica CAIX-L-CE	Clinical
Calcitonin	Polyclonal	Dako IR51561	Clinical
Caldesmon	h-CD	Dako IR054	Clinical
Calponin	CALP	Dako M3556	Clinical
Calretinin	DC8	Thermo Fisher 18-0211	Clinical
Cam5.2	Cam5.2	BD Biosciences 349205	Clinical
Cathepsin B	J0520	Santa Cruz sc-365558	Research
Cathepsin K	3F9	Abcam ab37259	Research

Cathepsin L	33/2	Santa Cruz sc-32320	Research
Cathepsin S	C0921	Santa Cruz sc-271619	Research
Cathepsin Z	F6	Santa Cruz sc-376976	Research
CB2/CNR2	Polyclonal	Thermo Fisher PA5-33443	Research
CCL2/MCP1	Polyclonal	Millipore Sigma HPA019163	Research
CCR5	Polyclonal	Protein Tech 17476-1-AP	Research
CD10	56C6	Leica PA0131	Clinical
CD103	EPR4166(2)	Abcam ab129202	Research
CD106/VCAM-1	6G9	Thermo MA5-15636	Research
CD11b	CL1719	Novus NBP2-34490	Research
CD123	BR4MS	Leica CD123-L-CE	Clinical
CD13	38C12	Leica NCL-L-CD13-304	Research
CD135/FLT3	Polyclonal	Thermo PA5-32769	Research
CD135/FLT3	Polyclonal	Novus NBP1-52567	Research
CD137	E6Z7F	Cell signaling 19541	Research
CD138	MI15	Dako M7228	Clinical
CD14	EPR3653	Cell Marque 114R-18	Clinical
CD15	MMA	BD Biosciences 340850	Clinical
CD16	DJ130c	LSBio LS-B8501	Research
CD163	10D6	Leica CD163-L-CE	Clinical
CD167(MCK10)	Polyclonal	Abcam ab135643	Research
CD180 (PR105)	EPR14720	Abcam ab184956	Research
CD19	BT51E	Leica CD19-163-L-CE	Clinical
CD1a	MTB1	Leica CD1A-235-L-CE	Clinical
CD2	EP222	Cell Marque 102R-18	Clinical
CD20 (anti-mouse)	Polyclonal	Thermo Fisher PA5-16701	Research Mouse-Specific
CD200	333	Novus NBP2-89696	Research
CD206	5C11	Novus H00004360-M02	Research
CD206 (anti-mouse)	MR503	BioRad MCA2235GA	Research Mouse-Specific
CD209	111H202	Dendritics DDX0209-100	Research
CD21	2G9	Leica CD21-2G9-L-CE	Clinical
CD23	1B12	Leica CD23-1B12-L-CE	Clinical
CD25	4C9	Leica PA0305	Clinical
CD3	LN10	Leica PA0122	Clinical

CD30	Ber-H2	Dako M0751	Clinical
CD31	JC70A	Dako M0823	Clinical
CD31 (anti-mouse)	MEC13.3	BD Biosciences 550274	Research Mouse-Specific
CD33	PWS44	Leica CD33-L-CE	Clinical
CD33 RTU	PWS44	Leica PA0555	Clinical PRIME-ONLY
CD34	QBEND10	Leica PA0354	Clinical
CD34 (anti-mouse)	RAM34	BD Biosciences 553731	Research Mouse-Specific
CD34 (anti-mouse)	MEC14.7	Novus NB600-1071ss	Research Mouse-Specific
CD35	Ber-MAC-DRC	Dako M0846	Clinical
CD35	EP197	Cell Marque 135R-18	Clinical PRIME-ONLY
CD4	EP204	Biocare API 3209 AA	Clinical
CD4	4B12	Leica PA0427	Research
CD4 (anti-mouse)	EPR19514	Abcam ab183685	Research Mouse-Specific
CD4 (anti-mouse)	4SM95	ebioscience 14-9766-82	Research Mouse-Specific
CD43	DF-T1	Dako M0786	Clinical
CD44	G44-26 (C26)	BD Biosciences 550392	Research
CD44	BC8	Biocare PM380AA	Research
CD45	2B11+PD7/26	Dako M0701	Research, Frozen Tissue
CD45 (anti-mouse)	D3F8Q	Cell Signaling 70257S	Research Mouse-Specific
CD5	4C7	Leica PA0168	Clinical
CD56 RTU	CD 564	Leica PA0191	Clinical
CD57	NK-1	Leica PA0443	Clinical PRIME-ONLY
CD58	Polyclonal	R&D Systems AF1689	Research
CD61	2f2	Leica PA0308	Clinical
CD62 E	Polyclonal	Abcam ab18981	Research
CD62P	EPR1444(2)(B)	Abcam ab178424	Research
CD63	NKI/C3	Cell Marque 263M-14	Research
CD66b	G10F5	BD 555723	Research
CD68	KP1	Dako IR60961	Clinical
CD68 (anti-mouse)	Polyclonal	LSBio LS C312677	Research Mouse-Specific
CD7	CBC.37	Dako M7255	Clinical
CD79b	Polyclonal	Millipore Sigma HPA009178	Research
CD79 α	JCB117	Dako IR62161	Clinical
CD8	C8/144B	Dako M7103	Clinical

CD8 (anti-mouse)	4SM15	ebioscience 14-0808-82	Research Mouse-Specific
CD8 (anti-mouse)	Polyclonal	Abcam ab203035	Research Mouse-Specific
CD80	UMAB65	Origene Tech. UM500055	Research
CD86	BU63	Abcam ab234000	Research
CD99	O13	Biolegend 915604	Clinical
CDX2	CDX2-88	Biogenex AM392-5M	Clinical
CEA	Polyclonal	Cell Marque 236A-18	Clinical
CEBP D	Polyclonal	Abcam ab65081	Research
cGas	Polyclonal	Novus NBP1-86761	Research
CHKA	Polyclonal	Millipore Sigma HPA024153	Research
Chromogranin A	5H7	Leica PA0515	Clinical
CK14	LL002	Leica LL002-L-CE	Clinical
CK15	Polyclonal	GeneTex GTX114517	Research
CK17	E3	Leica CK17-L-CE	Clinical
CK19	B170	Leica CK19-L-U	Clinical
CK20	Ks20.8	Biocare PM062H	Clinical
CK4	EP1599Y	Abcam ab51599	Research
CK5/6	D5/16/B4	Dako IR78061	Clinical
CK7	OV-TL	Dako IR61961	Clinical
CK8	TS1	Abcam ab49778	Research
CK8, 18	5D3	Leica 5D3-L-CE	Clinical
CK903	34BE12	Axxora C34903	Clinical
CK904	34 Beta B4	Axxora C34904	Clinical
CKIT (CD117)	EP10	Biocare PME296AA	Clinical
Claudin 3	Polyclonal	Abcam ab15102	Research
Claudin 4	Polyclonal	Abcam ab15104	Research
Claudin 7	Polyclonal	Abcam ab27487	Research
Cleaved Caspase 3	Polyclonal	Biocare CP229A	Research
Cleaved Notch1	D3b8/Val1774	Cell Signaling 4147	Research
Cleaved Parp	D64E10	Cell Signaling 5625	Research, Research Frozen Tissue
c-MET	SP44	Roche 790-4430	Clinical
CMV	CCH2 + DDG9	Dako M0854	Clinical
c-MYC	EP121	Epitomics AC-0116	Clinical
Collagen IV	CIV22	Dako M0785	Clinical

Collagen X	Polyclonal	Abcam AB58632	Research
Collagen XI	Polyclonal	Abcam ab64883	Research
CRABP2	Polyclonal	Novus NB100-2590	Research
CST6	Polyclonal	Millipore Sigma HPA044963	Research
CTLA-4	F-8	Santa Cruz sc-376016	Research
CTNNA1 (alpha catenin)	alpha-cCAT-7a4	Thermo Fisher 13-9700	Research
CXCL 13	Polyclonal	Novus NBP2-16041	Research
CXCL 9	Polyclonal	Aviva Systems AVARP07022_P050	Research
Cyclin-E1	13A3	Abcam ab9517	Research
CYP24A1-C terminal	Polyclonal	Abcam ab175976	Research
D2-40	D2-40	Biolegend 916602	Clinical
DapB	Probe	Leica RS7756	Clinical
Desmin	D33	Dako M0760	Clinical
DOG1	SP31	Cell Marque 244R-16	Clinical
EBER PROBE	Probe	Leica ISH5687A	Clinical
E-Cadherin (anti-mouse)	24E10	Cell Signaling 3195S	Research Mouse-Specific
E-Cadherin	NCH-38	Dako M3612	Clinical
EGFR VIII	D672Q	Cell Signaling 64952	Research
EMA	E29	Dako M0613	Clinical
Emilin3	Polyclonal	Millipore Sigma HPA059912	Research
EpCam (anti-mouse)	Polyclonal	Abcam ab71916	Research Mouse-Specific
ER	6F11	Leica NCL-L-ER-6F11	Research
ER (CDx)	SP1	Roche 790-4324 (5ml) or 790-4325 (25ml)	Clinical-Companion Diagnostic
ErbB-3	RTJ.2	Santa Cruz sc-415	Research
ERG	9FY	Biocare PM 421 AA	Clinical
ESAT6	HYB 076-08	Santa Cruz sc-57730	Research
EZH2	11	Cell Marque 415M-18	Research
Factor 13	AC-1A1	Thermo Fisher MS-1237-P	Clinical
Factor 8	Polyclonal	Dako A0082	Clinical
FAP alpha (anti-mouse)	EPR20021	Abcam ab207178	Research Mouse-Specific
FasL	Polyclonal	Novus Sdix 18730002	Research
FasL	G247-4	BD Biosciences 556387	Research
Ferritin Heavy Chain	EPR3005Y	Abcam ab75972	Research
Ferritin Light Chain	Polyclonal	Abcam ab69090	Research

FH (Fumarate Hydratase)	J13	Santa Cruz sc-100743	Clinical
FLI-1	EPR4646	Abcam ab133485	Clinical
FN1	FBN11	Invitrogen MA5-11981	Research
Folate Receptor Alpha	BN3.2	Leica FRALPHA-L-CE	Clinical
Folate Receptor Beta	Polyclonal	Novus NBP2-43654	Research
FOXA2 (anti-mouse)	EPR4466	Abcam ab108422	Research Mouse-Specific
FOXA3 (anti-mouse)	Polyclonal	Millipore Sigma SAB2108468	Research Mouse-Specific
FOXL2	Polyclonal	Millipore Sigma HPA09613	Research
FoxM1	C-20	Santa Cruz sc-502	Research
FoxM1	Polyclonal	Millipore Sigma HPA029974	Research
FoxP3	206D	Biologend 320102	Research
FSH	C10	Dako M3504	Clinical
FSH	EP257	Cell Marque 207R-18	Clinical PRIME-ONLY
G6PC	Polyclonal	Novus NBP2-31916	Research
G6PD	2A7B12	Proteintech 66373-1-Ig	Research
Galectin-3	9C4	Leica PA0238	Research
Galectin-3	B2C10	BD Biosciences 556904	Research
Gastrin	Polyclonal	Dako A0568	Clinical
Gata2+Gata3	EPR17874	Abcam ab182747	Research
GATA3	L50-823	Biocare PM 405AA	Research
GFAP	GA5	Leica NCL-GFAP-GA5	Research
GFAP	SP78	Cell Marque 258R-28	Clinical
GH	Polyclonal	Dako A0570	Clinical
gH2A.X	3F2	Abcam ab22551	Research
gH2A.X	20E3	Cell Signaling 9781S	Clinical, Research Frozen Tissue
GLS2	Polyclonal	Millipore Sigma HPA 038608	Research
Glucagon	Polyclonal	Biogenex AR039-5R	Clinical
Glut-1	EP141	Epitomics AC-0132	Clinical
Glutaminase	EP7212	Abcam 156876	Research
Glutamine Synthetase	6/Glutamine Synthetase	Biocare ACI 3009 B	Clinical
Glycophorin A (CD235a)	JC159	Dako M0819	Clinical
Glypican-3	1G12	Cell Marque 261M-96	Clinical
GNAT3	Polyclonal	Abcam ab113664	Research

GNRHR	GNRH03	Abcam ab74614	Research
GP-100	EP4863(2)	Abcam ab137078	Research
Granzyme A	Polyclonal	Thermo Fisher PA5-30054	Research
Granzyme B	11F1	Leica PA0291	Clinical
GSK3	Y174	Abcam 32391	Research
H. Pylori	BC7	Biocare CM 383 C	Clinical
H3	Polyclonal	Abcam ab1791	Research
H3.3 G34W	RM263	RevMAb Biosciences 31-1145-00-S	Clinical
H3K18ac	Polyclonal	Activie Motif 39755	Research
H3K27ac	Polyclonal	Abcam ab4729	Research
H3K27M	RM192	Millipore Sigma SAB5600095	Clinical
H3K27me2	Polyclonal	Abcam ab24684	Research
H3K27me3	C36B11	Cell Signaling 9733S	Clinical
H3K4me1	Polyclonal	Abcam ab8895	Research
H4	Polyclonal	Abcam ab7311	Research
HBcAg	Polyclonal	Bio SB BSB 5611	Clinical
HBME-1	HBME-1	Dako M3505	Clinical
HCG	Polyclonal	Leica PA0014	Clinical
HCL	DBA44	Dako M0880	Clinical
HER2 (CDx)	4B5	Roche 790-2991	Clinical-Companion Diagnostic
Her3	RTJ.2	Santa Cruz sc-415	Research
HHF35	HHF35	Axxora C34931	Clinical
HHV8	13B10	LSBio LS-C312211	Clinical
HIF1- α	EP1215Y	Biocare CME349A	Research
HIG2	Polyclonal	Abnova pab20497	Research
HK-II	C64G5	Cell Signaling 2867	Research
HLA class 1 abc	EMR8-5	Abcam ab70328	Research
HLA-DR	LN3	eBioscience 14-9956-80	Research
HMB45	HMB45	Leica PA0027	Clinical
HNF-B1	CL0374	Millipore Sigma AMAb90733	Research
HO-1	HO-1-1	Novus NBP1-97507	Research
HPC	OCH1E5	Dako M7158	Clinical
HPV High Risk	Probe	Leica RS7758, RS7861, RS7862, RS7863	Clinical
HPV HR18	Probe	ACD 312598	For Interest

HPV Low Risk	Probe	Leica RS7757, RS7860	Clinical
Hs-GFRA4	Probe	ACD 417428	For Interest
HSP70 (anti-mouse)	6B3	Cell Signaling 4873	Research Mouse-Specific
HSV 1 & 2	Polyclonal	Biocare PP108AA	Clinical
Iba1	Polyclonal	Wako 019-19741	Clinical
ICAM-5	283607	R&D Systems MAB1950	Research
IDH1	MRQ-67	Cell Marque 456R-38	Clinical
IDO	1F8.2	Millipore Sigma MAB10009	Research
IgA	Polyclonal	Cell Marque 267R-18	Clinical
IgD	Polyclonal	Dako A0093	Clinical
IGF1R beta	F1	Santa Cruz sc-390130	Research
IgG	Polyclonal	Dako A0424	Clinical
IgG4	MRQ-44	Cell Marque 367M-16	Clinical
IgM	Polyclonal	Dako A0426	Clinical
IL13Ra2	E7U7B	Cell Signaling 85677	Research
IL13Ra2	Polyclonal	R&D Systems AF146	Research
INA	Polyclonal	Millipore Sigma HPA008057	Research
Inhibin α	R1	Leica PA0488	Clinical
Ini-1	BAF47	BD Transduction 612111	Clinical
iNOS	2D2-B2	R&D Systems MAB9502	Research
INSM-1	MRQ-70	Cell Marque 475R-98	Clinical
Insulin	2D11-H5	Leica PA0620	Clinical
IQGAP2	a4	Santa Cruz sc-17835	Research
IRF8	EPR20441	Abcam ab207418-1001	Research
IRTA1/FCRL4	EPR21961	Abcam ab239076	Research
Islet-1	EP283	Cell Marque 431R-18	Clinical
ITGA5	Polyclonal	Invitrogen PA5-82027	Research
Kappa	CH15	Leica PA0606	Clinical
KCNN4	Polyclonal	Millipore Sigma HPA059622	Research
Ki-67	MIB-1	Dako IR62661	Clinical
Ki67 (anti-mouse)	SP6	Abcam ab16667	Research Mouse-Specific
L26	L26	Dako IR60461	Clinical
Lambda	SHL53	Leica PA0570	Clinical
Lamin A/C	636	Santa Cruz sc-7292	Research

Lamin B	M-20	Santa Cruz sc-6217	Research
Lamp1/CD107	Polyclonal	Santa Cruz sc-18821	Research
LASS6	5H7	Abnova H00253782-M01	Research
LASS6	Polyclonal	Abcam ab115539	Research
LC3	5F10	Nano tool 0231-100/LC3-5F10	Research
LCA (CD45)	2B11+PD7/26	Dako M0701	Clinical
Lectin (Biotinylated)		Vector B-1235	Research
LH	C93	Dako M3502	Clinical
LMP	CS1-4	Dako M0897	Clinical
LMP1/TRAF3	EP1730Y	LSBio LS-C50057	Research
Lysozyme	Polyclonal	Dako A0099	Clinical
Mammaglobin	31A5	Cell Marque 280R-18	Clinical
MAP-1B	AA6	Santa Cruz sc-58784	Research
Melan-A	A103	Dako M7196	Clinical
Merkel Cell Polyomavirus	Probe	ACD 431008	Clinical
Mesothelin	5B2	Leica PA0373	Clinical
MGMT	MT3.1	Millipore Sigma MAB16200	Research
Mic-2	12E7	Dako IR057	Clinical
MITF	C5/D5	Cell Marque 284M-98	Clinical
Mitochondria	113-1	BioGenex MU213-5UC	Research
MLH1	G168-728	Cell Marque 285M-18-ASR	Clinical
MMP11	SL3.05	Invitrogen MA5-11234	Research
MNDA	253A	Abcam ab188566	Research
Moc-31	Moc-31	Leica PA0797	Clinical
MSH2	FE11	Biocare CM 219 CK	Clinical
MSH6	BC/44	Biocare CM 265 BK	Clinical
mSir2a	SIRT1	Zymed 348600	Research
MTCO2	12C4F12	Abcam ab110258	Research
mTOR	7C10	Cell Signaling 2983	Research
MUC4	EP256	BioSB BSB 2554	Clinical
MUM1 Protein	MUM1p	Dako M7259	Clinical
MX1/2/3	Polyclonal	Santa Cruz sc-50509	Research
MYB (v-myb+c-myb)	EP769V	Abcam ab45150	Research
MYE	Polyclonal	Dako A0398	Clinical

MyoD1	EP212	Cell Marque 386R-18	Clinical
Myogenin	F5D	Cell Marque 296M-18	Clinical
Myoglobin	MYO18	Leica PA0727	Clinical
Myosin FAST	WB-MHCf	Leica MHCF	Clinical
Myosin SLOW	WB-MHCs	Leica MHCS	Clinical
Myosin NEONATAL	WB-MHCn	Leica MHCN	Clinical
NAMPT/PBEF	Polyclonal	Bethyl lab. IHC-00011	Research
Napsin	KCG1.1	Abcam ab73021	Clinical
NCR1/NKP46	N1d9	LSBio LS-B2105	Research
NDUFB8	20E9DH10C12	Abcam ab110242	Research
Nestin	10C2	Cell Marque 388M-18	Research
NeuN	A60	Millipore Sigma MAB377	Clinical
NFKb p65	L8F6	Cell Signaling 6956	Research
NINJ2	Polyclonal	Protein Tech. 66202-1	Research
NKAIN4	Polyclonal	Millipore Sigma HPA029876	Research
NKX3.1	Polyclonal	Biocare PP 422 AA	Clinical
NNMT	G-4	Santa Cruz sc-376048	Research
NOR-1	H-7	Santa Cruz sc-393902	Clinical
Notch1 (Cleaved)	D3B8	Cell Signaling 4147	Research
NSE	22C9	Leica PA0435	Clinical
NUT	C52B1	Cell Signaling 3625	Clinical
NY-ESO-1	E978	Santa Cruz sc-53869	Research
Oct 3/4	N1NK	Leica PA0193	Clinical
OCT-2	OCT 207	Leica PA0532	Clinical
p16	E6H4	Roche 9517	Clinical
p40	BC28	Biocare API 3066 AA	Clinical
p53	DO-7	Dako M7001	Clinical
p57	J25B2	Leica P57-L-U	Clinical
p63	BC4A4	Biocare PM 163 AA	Clinical
pAKT	LP18	Leica NCL-L-AKT-phos	Research
Panck	C11	Biogenex MU357-UC	Clinical
Parafibromin	2H1	Santa Cruz sc-33638	Clinical
PARP1	46D11	Cell Signaling 9532	Research, Frozen Tissue
Parvo	R92F6	Cell Marque 218M-18	Clinical

pATF4 (anti-mouse)	Polyclonal	Abcam ab28830	Research Mouse-Specific
pATM	EP1890Y	Abcam ab208775	Research, Frozen Tissue
Pax 5	24	BD Biosciences 610863	Clinical
Pax 5	SP34	Cell Marque 312R-14	Research
Pax 8	Polyclonal	Cell Marque 363A-14	Clinical
PD1	NAT 105	Abcam ab52587	Clinical
PD1 (anti-Canine)	Polyclonal	Sino 70109-T16	Research Mouse-Specific
PDGFR alpha	Polyclonal	LSBio LS-B2683	Research
PDL1	E1J2J	Cell Signaling 15165BF	Research
PDL1 (CDx)	22C3	Dako SK006	Clinical-Companion Diagnostic
PDL1 (CDx)	SP142	Roche 740-4859	Clinical-Companion Diagnostic
PDL2	Polyclonal	Thermo Fisher PA5-20344	Research
Perforin	5B10	Leica PERFORIN-L-U	Clinical
Perilipin (PLIN-1)	D418	Cell Signaling 3470	Research
pERK	D13.14.4E	Cell Signaling 4370	Research
pFAK	31H5L17	Thermo Fisher 700255	Research
PGRMC1	Polyclonal	Millipore Sigma HPA002877	Research
PHD2	Polyclonal	Novus NB100-137	Research
PIM1	EP2645Y	Abcam ab75776	Research
Pim2	9A5	Abcam ab118157	Research
PIN4 - P504S 2X (for use in PIN4 cocktail ONLY)	Polyclonal	Biocare PP 365 AA	Clinical
PIN4- Prostate Cocktail 2X (HMW CK + P63)	Xm26, LL002, BC4A4	Biocare PM 364 AAK	Clinical
Pit-1	D-7	Santa Cruz sc-393943	Clinical
PKC alpha	Y124	Abcam ab32376	Research
PKR	FJ-6	Santa Cruz sc-100378	Research
PLAP	8A9	Leica PA0161	Clinical
PMEL	HMB45	Thermo MA5-13232	Research
PMS2	EPR3927	Cell Marque 288R-18	Clinical
POU2F3	Polyclonal	Millipore Sigma HPA019652	Research
PPAR alpha	Polyclonal	Novus NB600-636	Research
PPIB	Probe	Leica RS7755	Clinical
pPKA	EP2606Y	Abcam ab75991	Research

PPT1 (anti-mouse)	Polyclonal	Millipore Sigma HPA02146	Research Mouse-Specific
PR (CDx)	1E2	Roche 790-2223 (5ml) or 790-4296 (25ml)	Clinical-Companion Diagnostic
PRAME	EPR20330	Biocare API 3252 AA	Clinical
pRb	D20B12	Cell Signaling 8516	Research
Pre-Albumin	Polyclonal	Dako A0002	Clinical
PRF1	5B10	LSBio LS-C87866	Research
Prolactin	EP193	Cell Marque 210R-18	Clinical
pS6	Ser235/236, D57.2.2E	Cell Signaling 4858	Research
PSA	35H9	Leica PA0431	Clinical
PSAP	PASE/4LJ	Leica PA0006	Clinical
PSMA	3E6	Dako IR089	Clinical
PSMA3 (Proteasome 20S alpha 3)	Polyclonal	Novus NBP1-92293	Research
pStat3	D3A7	Cell Signaling 9145	Research
pStat5	Polyclonal	Cell Signaling 9351	Research
pTEN	6H2.1	Dako M3627	Research
pTEN	D4.3	Cell Signaling 9188	Research
PTH	MRQ-31	Cell Marque 310M-28	Clinical
QKI	N147/6	Santa Cruz sc-517305	Research
RAC-1	Polyclonal	Thermo Fisher PA1-091	Research
Racemase (P504S)	13H4	Cell Marque 504R-18	Clinical
Rac-GPT	Monoclonal	New East Biosciences 26903	Research
RAD51	14B4	Abcam ab213	Research
RAGE	A17158D	BioLegend 855902	Research
RANK	80707	R&D Systems MAB6831	Research
CD45 (anti-mouse)	30-F11	BD Biosciences 550539	Research Mouse-Specific
RB-1	1F8	Thermo Fisher MS-107-P	Clinical
RCC	PN-15	Cell Marque PA0811	Clinical
RIP1	Polyclonal	Novus NBP1-87826	Research
RIPK3	Polyclonal	Aviva Systems OAAB10872	Research
ROS-1	D4D6	Cell Signaling 3287S	Clinical
RPA32/RPA2	Polyclonal	Abcam ab87277	Research
S100	Polyclonal	Dako IR50461	Clinical

Sall4	EE-30	Santa Cruz sc-101147	Clinical
SATB2	EP281	Cell Marque 384R-15	Clinical
SDF-1 (CXCL12)	Polyclonal	Abcam ab18919	Research
SDHB	EP288	Cell Marque 466R-18	Clinical, Research Frozen Tissue
SF1	EPR19744	Abcam ab217317	Clinical
SHP-TP1	D-11	Santa Cruz sc-7289	Clinical
SIGLEC6	Polyclonal	Millipore Sigma HPA009084	Research
SIGLEC6	Polyclonal	Millipore Sigma HPA018198	Research
SLC52A2	Polyclonal	Millipore Sigma HPA063036	Research
SLC52A3	Polyclonal	Millipore Sigma HPA059078	Research
SLFN1	D8W1B	Cell Signaling 34858	Research
SMA	1A4	Dako M0851	Clinical
SMAD4	B-8	Santa Cruz sc-7966	Research
SMARCA4	EPNCIR111A	Abcam ab110641	Clinical
Somatostatin	EP130	Cell Marque 322R-18	Clinical
Sox10	BC34	Biocare API 3099 AA	Clinical
Sox11	MRQ-58	Cell Marque 382M-18	Clinical
SOX9	Polyclonal	R&D Systems AF3075	Research
SOX9 (anti-mouse)	Polyclonal	Millipore Sigma AB5535	Research Mouse-Specific
Spirochete	Polyclonal	Biocare APA 135 AA	Clinical
Spred1	Polyclonal	Millipore Sigma HPA042193	Research
Sprouty-2 N-Terminal	Polyclonal	Millipore Sigma S1444	Research
SQSTM1/p62	2C11	Abcam ab56416	Research
SSTR2	UMB1	Abcam ab134152	Clinical
Stat 6	EP325	Cell Marque 426R-18	Clinical
SV 40	PAB416	Calbiochem DP02	Clinical
Synaptophysin	MRQ-40	Cell Marque 336R-98	Clinical
T-bet	4B10	Biolegend 644802	Research
TCHP	Polyclonal	Thermo Fisher PA5-26363	Research, research mouse Specific
TCL1	MRQ-7	Cell Marque 357M-18	Clinical
TCR-D	H-41	Santa Cruz sc-100289	Clinical
TDAG51	RN-6E2	Santa Cruz sc-23866	Research
TdT	Polyclonal	Cell Marque 338A-77	Research
TdT	SEN28	Leica PA0339	Clinical

TEM1	B1/35	Millipore Sigma MAB2626	Research
TERT	2D8	Invitrogen MA5-16033	Research
TFE3	MRQ-37	Cell Marque 354R-18	Clinical
Thrombomodulin	1009	Dako M0617	Clinical
THY	Polyclonal	Dako IR50961	Clinical
TIA-1	TIA-1	Biocare PM 130 AA	Clinical
TIGIT	Polyclonal	Abbexa abx104647	Research
TIP120A	YQ-07	Santa Cruz sc-101180	Research
TK1	F(12)	Abnova H00007083-M02	Research
TLE1	1F5	Cell Marque 401M-18	Clinical
TMEM59L	Polyclonal	Millipore Sigma HPA010661	Research
Toxoplasma Gondii	Polyclonal	BioSB BSB 6044	Clinical
Tpit	Polyclonal	Millipore Sigma HPA072686	Clinical
Transferrin Receptor (TfR)	H68.4	Thermo Fisher 13-6800	Research
Trypsin	D-1	Santa Cruz sc-137077	Clinical
Tryptase (Mast Cell)	AA1	Dako M7052	Clinical
Tryptase (Mast Cell)	10D11	Leica PA0019	Clinical PRIME-ONLY
TSH	0042	Dako M3503	Clinical
TTF-1 RTU	SPT24	Leica PA0364	Clinical
TTF1	8G7G3/1	Dako M3575	Research
TTF1	SPT24	Vector vp-t483	Research
TXNIP	Polyclonal	LSBio LSB-5829	Research
TXNIP	JY2	MBL K0205-3	Research
Tyrosinase Ab-1	T311	Thermo Fisher MS-800-P	Clinical
U2SURP (SR140)	Polyclonal	Thermo Fisher PA5-41970	Research, Mouse-Specific
UCHL-1	UCHL 1	Dako M0742	Clinical
UGCG	Polyclonal	Protein Tech 12869-1-AP	Research
Vav2	Polyclonal	Abcam ab52640	Research
VDR	Ser208	OriGene TA325970	Research
VDR	Polyclonal	OriGene TA325969	Research
Vimentin	V9	Dako M0725	Clinical
V-nCoV2019-S	Probe	ACD 848568	For Interest
VZV	M1	Millipore Sigma MAB8612	Clinical
WHSC1 (MMSET)	Polyclonal	Millipore Sigma HPA015801	Research

WT1	6F-H2	Dako IR055	Clinical
Zap70	2F3.2	Millipore Sigma 05-253	Clinical