Finalized Human Panels

Tissue Type	Antibody	Clone	Vendor	Catalog	Antibody Host	Fluorophore	Counterstain
Human Breast Tissue, tonsil	CD163	10D6	Novus Biologicals	NB110-59935	Rabbit	520	
	CD68	KP1	Invitrogen	MA5-13324	Rabbit	570	
	CD11c	5D11	Cell Marque	111M-15	Rabbit	620	
	PDL1	SP142	Abcam	ab228462	Mouse	690	
	Cytokeratin	AE1/AE3	EMD Millipore	MAB3412	Mouse	780/TSA-DIG	DAPI
Human Prostate	CD8 alpha	C8/144B	Invitrogen	MA5-13473	Mouse	480	DAPI
	Ki67	MM1	Leica Biosystems	PA0118	Mouse	520	
	PKC Lambda	RUO	BD Biosciences	610208	Mouse	570	
	PSTAT1	Y701 (58D6)	Cell Signaling	9167	Rabbit	620	
	Cytokeratin	AE1/AE3	EMD Millipore	MAB3412	Mouse	690	
Human Hodgkins Lymphoma, to	CD8 alpha	C8/144B	Invitrogen	MA5-13473	Mouse	480	DAPI
	PDL1	73-10	Leica Biosystems	PA0832	Rabbit	520	
	PD1	CAL20	Leica Biosystems	PA0216	Rabbit	570	
	CD30	Ber-H2	Invitrogen	MA5-13219	Mouse	620	
	CD4	4B12	Leica Biosystems	PA0427	Mouse	690	
	PAX5	24/PAX-5	BD Biosciences	610863	Mouse	780/TSA-DIG	
Human tonsil	CD3	SP7	Millipore Sigma	SAB5500058	Rabbit	480	DAPI
	CD45 RO	UCH-L1	Abcam	ab23	Mouse	520	
	CD25	4C9	Leica Biosystems	PA0305	Mouse	570	
	CD4	4B12	Leica Biosystems	PA0427	Mouse	620	
	CD45RA	4KB5	Abcam	ab755	Mouse	690	
	CD163	10D6	Leica Biosystems	PA0090	Mouse	780/TSA-DIG	
Human Prostate	PTEN	138G6	Cell Signaling	9559	Rabbit	480	DAPI
	GFP	EPR14104-89	Abcam	ab183735	Rabbit	520	
	ChrA	polyclonal	Abcam	ab15160	Rabbit	570	
	c-Myc	Y69	Abcam	ab32072	Rabbit	620	
	pAKT	D9E	Cell Signaling	4060	Rabbit	690	
	Rb	EPR17512	Abcam	ab181616	Rabbit	780/TSA-DIG	
Human Prostate organoids?	ACC	D4W27	Cell Signaling	3676	Rabbit	480	DAPI
	Ki67	D3B5	Cell Signaling	12202	Rabbit	520	
	P-ACC	C83B10	Cell Signaling	3661	Rabbit	570	
	ARV7	RM7	RevMab	31-1109-00	Rabbit	620	
	Cytokeratin	AE1/AE3	EMD Millipore	MAB3412	Mouse	690	
Human Bone Marrow, Tonsil	CD71	10F11	Leica Biosystems	NCL-L-CD71-30	Mouse	480	DAPI
	CD61	2F2	Leica Biosystems	PA0308	Mouse	520	
	CD117 (c-kit)	D3W6Y	Cell Signaling	37805	Rabbit	570	
	CD38	38C03(SPC32)	Invitrogen	MA5-14413	Mouse	620	
	CD34	QBEND/10	Invitrogen	MA1-10202	Mouse	690	
	CD15	MMA	BD Biosciences	347420	Mouse	780/TSA-DIG	
Human Bone Marrow	CALRm	CAL2	Dianova	DIA-CAL-100	Mouse	480	DAPI
	CD38	38C03(SPC32)	Invitrogen	MA5-14413	Mouse	520	
	CD117 (c-kit)	D3W6Y	Cell Signaling	37805	Rabbit	570	
	TdT	SEN28	Invitrogen	MA5-11466	Mouse	620	
	CD34	QBEND/10	Invitrogen	MA1-10202	Mouse	690	
	Ki67	MM1	Leica Biosystems	PA0118	Mouse	780/TSA-DIG	
Human Hodgkins Lymphoma	CD4	4B12	Leica Biosystems	PA0427	Mouse	480	DAPI
	CD30	Ber-H2	Invitrogen	MA5-13219	Mouse	520	
	PD1	CAL20	Leica Biosystems	PA0216	Rabbit	570	
	PDL1	73-10	Leica Biosystems	PA0832	Rabbit	620	
	CD8	4B11	Leica Biosystems	PA0183	Mouse	690	
	CD20	L26	Leica Biosystems	PA0200	Mouse	780/TSA-DIG	
Human Prostate	HA	HTI-601			N/A (biotinylated)	480	DAPI
	PKC Lambda	RUO	BD Biosciences	610208	Mouse	520	
	CD56	CD564	Leica Biosystems	CD56-504-L-CE	Mouse	570	
	CD44	VFF-7	Novus Biologicals	NB100-65535	Mouse	620	
	Vimentin	V9	Leica Biosystems	PA0640	Mouse	690	
	CK5		Biolegend	905501	Rabbit	780/TSA-DIG	
Human Breast Tissue, tonsil	CD3	SP7	Millipore Sigma	SAB5500058	Rabbit	480	DAPI
	CD4	4B12	Leica Biosystems	NCL-L-CD4-368	Mouse	520	
	CD8	C8/144B	Invitrogen	MA5-13473	Mouse	570	
	FOXP3	236A/E7	Invitrogen	14-4777-82	Mouse	620	
	Ki67	MIB-1	Agilent (Dako)	M7240	Mouse	690	
	Cytokeratin	AE1/AE3	EMD Millipore	MAB3412	Mouse	780/TSA-DIG	
Human Breast Tissue, tonsil	CD4	4B12	Leica Biosystems	NCL-L-CD4-368	Mouse	480	DAPI
	CD8	C8/144B	Invitrogen	MA5-13473	Mouse	520	
	FOXP3	236A/E7	Invitrogen	14-4777-82	Mouse	570	
	CD11c	5D11	Cell Marque	111M-15	Mouse	620	
	Ki67	MIB-1	Agilent (Dako)	M7240	Mouse	690	
	Cytokeratin	AE1/AE3	EMD Millipore	MAB3412	Mouse	780/TSA-DIG	
Human Brain Tissue, brain organ	Nestin	10C2	EMD Millipore	MAB5326	Mouse	480	DAPI
	Neurod2	JE50-57	Invitrogen	MA5-36147	Rabbit	520	
	DLX2	B-5	Santa Cruz Biotechn	sc-393879	Mouse	570	
	TBR2	polyclonal	Abcam	ab23345	Rabbit	620	
	Olig1	?	EMD Millipore	MAB5540	Mouse	690	
	GFAP	polyclonal	Agilent (Dako)	Z0334	Rabbit	780/TSA-DIG	
Human Bone Marrow	S1PR1	A-6	Santa Cruz Biotechn	sc-48356	Mouse	520	DAPI
	S1PR2	Polyclonal	Origene	AP01198PU-N	Rabbit	570	
	CD34	QBEND/10	Leica Biosystems	PA0212	Mouse	620	
	CD61	2F2	Leica Biosystems	PA0308	Mouse	690	

Finalized Human Panels

Tissue Type	Antibody	Clone	Vendor	Catalog	Antibody Host	Fluorophore	Counterstain	
Human Prostate, Bladder	CD163	10D6	Leica Biosystems	PA0090	Mouse		480	DAPI
	CD3	LN10	Leica Biosystems	PA0553	Mouse		520	
	CD8	4B11	Leica Biosystems	PA0183	Mouse		570	
	CD4	4B12	Leica Biosystems	NCL-L-CD4-368	Mouse		620	
	HMW Keratin	34BETAE12	Leica Biosystems	PA0134	Mouse		690	
Human Prostate, Bladder	PDL1 (CD274)	73-10	Leica Biosystems	PA0832	Rabbit		480	DAPI
	FOXP3	236A/E7	Leica Biosystems	PA0263	Mouse		520	
	Ki67	D3B5	Cell Signaling	12202	Rabbit		570	
	CD4	4B12	Leica Biosystems	NCL-L-CD4-368	Mouse		620	
	HMW Keratin	34BETAE12	Leica Biosystems	PA0134	Mouse		690	
Human Prostate, various tissues i	SETD2	E4W8Q	Cell Signaling	89680	Rabbit		520	DAPI
	H3K36me3	polyclonal	Active Motif	61101	Rabbit		570	
	FoxA2	EPR4465	Abcam	ab108396	Rabbit		690	
Human Prostate, various tissues i	NSD2 (WHSC1)	29D1	Abcam	ab75359	Mouse		520	DAPI
	H3K36me2	C75H12	Cell Signaling	2901--	Rabbit		570	
	Chga	polyclonal	Abcam	ab15160	Rabbit		620	
	AR	EPR1535(2)	Abcam	ab133273	Rabbit		690	
Human Prostate, various tissues i	EZH2	AC22	Cell Signaling	3147	Mouse		520	DAPI
	H3K27me3	C36B11	Cell Signaling	9733	Rabbit		570	
	DNMT3A	polyclonal	Atlas Antibodies	HPA026588	Rabbit		620	
	Synaptophysin	2/synaptophysin (RL	BD Biosciences	611880	Mouse		690	
Human Prostate	Gpx3	EPR19951-136	Abcam	ab275965	Rabbit		480	DAPI
	C3	EPR19394	Abcam	ab200999	Rabbit		520	
	CD55	EPR6689	Abcam	ab133684	Rabbit		570	
	NFkB	E381	Abcam	ab32360	Rabbit		620	
	SFRP1	EPR7003	Abcam	ab126613	Rabbit		690	
	cytokeratin	polyclonal	Abcam	ab9377	Rabbit	780/TSA-DIG		
Human Prostate	LEF1	EPR2029Y	Abcam	ab137872	Rabbit		480	DAPI
	WIF1	EPR9385	Abcam	ab155101	Rabbit		520	
	Wnt2/IRP	EPR3101(2)	Abcam	ab109222	Rabbit		570	
	SFPR2	polyclonal	Abcam	ab92667	Rabbit		620	
	LGR5	polyclonal	Abcam	ab219107	Rabbit		690	
	Cytokeratin	polyclonal	Abcam	ab9377	Rabbit	780/TSA-DIG		
Human lung, various tissues in TM	DLL3	EPR22592-18	Abcam	ab229902	Rabbit		480	DAPI
	CUL4B	Polyclonal	Novus Biologicals	NBP1-86099	Rabbit		520	
	MHC Class I	EPR1394Y	Abcam	ab240087	Mouse		570	
	Met	D1C2	Cell Signaling	8198	Rabbit		620	
	ERbB3	SP71	Abcam	ab93739	Rabbit		690	
	EGFR	Polyclonal	Novus Biologicals	NBP1-84814	Rabbit	780/TSA-DIG		
Human Prostate	ERG	EPR3864	Abcam	ab92513	Rabbit		520	DAPI
	Cytokeratin	polyclonal	Abcam	ab9377	Rabbit		570	
	PTEN	D4.3	Cell Signaling	9188	Rabbit		690	
Human Bone Marrow	VE-Cadherin/CD144 (0.5mg/mL)	16B1	Invitrogen	17-1449-42	Mouse		520	DAPI
	MCAM/CD146	E3F3E	Cell Signaling	81701	Rabbit		480	
	CD117 (c-kit)	D3W6Y	Cell Signaling	37805	Rabbit		570	
	Nestin	10C2	Cell Signaling	33475	Mouse		620	
	CD34	QBEND/10	Leica Biosystems	PA0212	Mouse		690	
	Ki-67	D2H10	Cell Signaling	9027	Rabbit	780/TSA-DIG		
Human Breast tissue, various tiss	PCTP-L	polyclonal	Abcam	ab121976	Rabbit		520	DAPI
	HMGB2	EPR6301	Abcam	ab133540	Rabbit		570	
	Milk Fat Globule 1 (0.2mg/ml)	SPM291	Abcam	ab17737	Mouse		620	
	Estrogen Receptor alpha	EPR4097	Abcam	ab108398	Rabbit		690	
	FOXA1	EPR10881-14	Abcam	ab173287	Rabbit	780/TSA-DIG		
Human Prostate, prostate organ	AR	EPR179(2)	Abcam	ab108341	Rabbit		520	DAPI
	c-myc	Y69	Abcam	ab32072	Rabbit		570	
	ARV7	RM7	RevMab	31-1109-00	Rabbit		620	
	Ki67	D3B5	Cell Signaling	12202	Rabbit		690	
	HMW Cytokeratin	clone 34E12	Leica Biosystems	PA0134	Mouse	780/TSA-DIG		
Human Prostate, prostate organ	ACC	C83B10	Cell Signaling	3676	Rabbit		520	DAPI
	c-PARP	E51	Abcam	ab3204	Rabbit		570	
	P-ACC	S79	Cell Signaling	3661	Rabbit		620	
	FASN	polyclonal	Biomol	A301-324A	Rabbit		690	
	HMW Cytokeratin	clone 34E12	Leica Biosystems	PA0134	Mouse	780/TSA-DIG		
Human Prostate, prostate organ	pH2a.x	20E 3	Cell Signaling	9718-	Rabbit		520	DAPI
	c-PARP	E51	Abcam	ab3204	Rabbit		570	
	P-ACC	S79	Cell Signaling	3661	Rabbit		620	
	Ki67	D3B5	Cell Signaling	12202	Rabbit		690	
	HMW Cytokeratin	clone 34E12	Leica Biosystems	PA0134	Mouse	780/TSA-DIG		
Human Knee Adipose Tissue	CD31	polyclonal	Abcam	ab28364	Rabbit		520	DAPI
	LRRC15	polyclonal	Novus Biologicals	NBP1-93556	Rabbit		570	
	CD34	QBEND/10	Leica Biosystems	PA0212	Mouse		620	
	FAP (1mg/mL)	polyclonal	LS Bio	LS-A8025-50	Rabbit		690	
	SMA (smooth muscle actin)	ACTA2	LS Bio	LS-B7351	Mouse	780/TSA-DIG		

Finalized Mouse Panels

Tissue Type	Antibody	Clone	Vendor	Catalog	Antibody Host	Fluorophore	Counterstain	
Mouse Kidney/Liver	CD4	EPR19514	Abcam	ab183685	Rabbit		480	
	CD21	EP3093	Abcam	ab75985	Rabbit		520	
	FOXP3	D608R	Cell Signaling	125653	Rabbit		570	
	PAX5	D7H5X	Cell Signaling	12709	Rabbit		620	
	PD1	polyclonal	ProSci	4065	Rabbit		690	
	CD8 alpha	D4W2Z	Cell Signaling	98941	Rabbit	780/TSA-DIG		DAPI
Mouse Prostate	Gpx3	EPR228815-112	Abcam	ab256470	Rabbit		480	DAPI
	C3	EPR19394	Abcam	ab200999	Rabbit		520	
	CD55	EPR6689	Abcam	ab133684	Rabbit		570	
	NFkB	E381	Abcam	ab32360	Rabbit		620	
	SFRP1	EPR7003	Abcam	ab126613	Rabbit		690	
	cytokeratin	polyclonal	Abcam	ab9377	Rabbit	780/TSA-DIG		
Mouse Prostate	LEF1	EPR2029Y	Abcam	ab137872	Rabbit		480	DAPI
	WIF1	[EPR9385	Abcam	ab155101	Rabbit		520	
	Wnt2/IRP	EPR3101(2)	Abcam	ab109222	Rabbit		570	
	SFPR2	tbd	Abcam	ab92667	Rabbit		620	
	LGR5	tbd	Abcam	ab219107	Rabbit		690	
	Cytokeratin	polyclonal	Abcam	ab9377	Rabbit	780/TSA-DIG		
Mouse Prostate	SFRP4	EPR9389	Abcam	ab154167	Rabbit		480	DAPI
	Ube2L3/UBCH7 (E2F	EPR4368	Abcam	ab108936	Rabbit		520	
	Stathmin 1	SP49	Abcam	ab101690	Rabbit		570	
	Midkine	EP1143Y	Abcam	ab52637	Rabbit		620	
	Ki-67	D3B5	Cell Signaling	12202	Rabbit		690	
	Cytokeratin	polyclonal	Abcam	ab9377	Rabbit	780/TSA-DIG		
Mouse Prostate	GFP	EPR14104-89	Abcam	ab183735	Rabbit		480	DAPI
	Ki-67	D3B5	Abcam	12202	Rabbit		520	
	SFRP4	EPR9389	Abcam	ab154167	Rabbit		570	
	LEF1	EPR2029Y	Abcam	ab137872	Rabbit		620	
	ERG	EPR3864	Abcam	ab92513	Rabbit		690	
	Cytokeratin	Polyclonal	Abcam	ab9377	Rabbit	780/TSA-DIG		
Mouse Intestine	CD8 alpha	EPR20305	Abcam	ab209775	Rabbit		480	DAPI
	CD19	D4V4B	Cell Signaling	90176	Rabbit		520	
	FOXP3	D608R	Cell Signaling	12653	Rabbit		570	
	MRP8	EPR3554	Abcam	ab92331	Rabbit		620	
	Ki67	D3B5	Cell Signaling	12202	Rabbit		690	
	Cytokeratin	polyclonal	Abcam	ab9377	Rabbit	780/TSA-DIG		
Mouse Tumor	CD163	EPR19518	Abcam	ab213612	Rabbit		480	DAPI
	F4/80	D2S9R	Cell Signaling	70076	Rabbit		520	
	CD4	EPR19514	Abcam	ab183685	Rabbit		570	
	CD8 alpha	EPR20305	Abcam	ab209775	Rabbit		620	
	FOXP3	D6O8R	Cell Signaling	125653	Rabbit		690	
	Cytokeratin	AE1/AE3	EMD Millipore	MAB3412	Mouse	780/TSA-DIG		
Mouse Spleen	PNA	B-1075-5	Vector Laboratories	B-1075	N/A		520	DAPI
	CD21	SP186	Abcam	ab227662	Rabbit		570	
	Notch1	EP1328Y	Abcam	ab52627	Rabbit		620	
	Ki-67	D3B5	Rabbit	D3B5	Rabbit		690	
	CD45R (0.5mg/mL)	RA3-6B2	Thermofisher	14-0452-81	Rat	780/TSA-DIG		

Human Antibodies

Antibody	Vendor	Catalog	Clone	Host	Reactivity	Attempted on
CD41	Abcam	ab134131	EPR4330	Rabbit	Mouse, Human	Human
ATG16L1	Abcam	ab195242	EPR19016	Rabbit	Mouse, Human	Human
LAMP1	Abcam	ab25630	H4A3	Mouse	Human	Human
p62	MBL	PM045	polyclonal	Rabbit	Human, Mouse, Rat, Hamster	Human
LC3B	NovusBio	NB600-138 4H	Polyclonal	Rabbit	Human, Rat, Mouse, Porcine, Bacteria, Bovine,	Human
PDL1	Abcam	ab236238	SP142	Rabbit	Human, Recombinant Fragment	Human
CD68	Invitrogen	MA5-1324	KP1	Mouse	Cat, Human, Non-Human Primate, Rat	Human
CD8	Invitrogen	MA5-13473	C8/144B	Mouse	Human	Human
FOXP3	Invitrogen	14-4777-82	236A/E7	Mouse	Human, Non-Human Primate, Rhesus monkey	Human
CD163	NovusBio	NB110-59935	10D6	Mouse	Human	Human
Cytokeratin	EMD Millipore	MAB3412	AE1/AE3	Mouse	Human, Rat, Mouse, Monkey, Rabbit, Bovine, Cl	Human
CD11c	Cell Marque	111M-15	5D11	Mouse	Human	Human
Ki67	Agilent (Dako)	M7240	MIB-1	Mouse	Human	Human
CD3	Millipore Sigma	SAB5500058	SP7	Rabbit	Human	Human
CD4	Leica	NCL-L-CD4-368	4B12	Mouse	Human	Human
PDL1	Leica	PA0832	73-10	Rabbit	Human	Human
CD3	Leica	PA0553	LN10	Mouse	Human	Human
CD163	Leica	PA0090	10D6	Mouse	Human	Human
FOXP3	Leica	PA0263	236A/E7	Mouse	Human	Human
Ki-67	Cell Signaling	12202	D3B5	Rabbit	Mouse (we found it works on human too)	Human
Ki-67	Cell Signaling	9027	D2H10	Rabbit	Human	
HMW Keratin	Leica	PA0134	34BETAE12	Rabbit	Human	Human
CD8	Leica	PA0183	4B11	Mouse	Human	Human
HMGB2	Abcam	ab133540	EPR6302	Rabbit	Human, Mouse, Rat	Human
Estrogen Receptor a	Abcam	ab32063	E115	Rabbit	Human, Mouse, Rat	Human
PCTP-L	Abcam	ab121876	polyclonal	Rabbit	Human, Mouse, Rat	Human
FOXA1	Abcam	ab173287	EPR10881-14	Rabbit	Human, Mouse	Human
NSD2/WHSC1	Abcam	ab75359	29D1	Mouse	Human	Human
H3K36me2 Di-Meth	Cell Signaling	2901)	C75H12	Mouse	Human, Mouse, Rat, Monkey	Human
Chromogranin A (Cg	Abcam	ab15160	Polyclonal	Rabbit	Human	Human
AR	Abcam	ab133273	EPR1535(2)	Rabbit	Mouse, Rat, Human	Human
EZH2	Cell Signaling	3147	AC22	Mouse	Human, Mouse, Rat, Monkey	Human
H3K27me3 Tri-met	Cell Signaling	9733	C36B11	Mouse	Human, Mouse, Rat, Monkey	Human
DNMT3A	Atlas Antibodies	HPA026588	Q9Y6K1	Rabbit	Human	Human
Synaptophysin (Syp	BD Biosciences	611880	2/Synaptophysin (R	Mouse	Rat, Human, Mouse	Human
SETD2	Cell Signaling	89680	E4W8Q	Rabbit	Human, Mouse, Monkey	Human
Histone H3K36me3	Active Motif	61101	Polyclonal	Rabbit	Human, Mouse	Human
FOXA2	Abcam	ab108396	EPR4465	Rabbit	Human	Human
CD30	Invitrogen	MA5-13219	Ber-H2	Mouse	Human	Human
PD1	Leica	PA0216	CAL20	Rabbit	Human	Human
CD20	Leica	PA0200	L26	Mouse	Human	Human
CD4	Leica	PA0427	4B12	Mouse	Human	Human
CD71	Leica	NCL-L-CD71-309	10F11	Mouse	Human	Human
CD61	Leica	PA0308	2F2	Mouse	Human	Human
c-Kit (CD117)	Cell Signaling	37805	D3W6Y	Rabbit	Human	Human
CD38	Invitrogen	MA5-14413	38C03(SPC32)	Mouse	Human, Mouse	Human
CD38	Leica	NCL-L-CD38-290	SPC32	Mouse	Human	Human
CD34	Invitrogen	MA1-10202	QBEND/10	Mouse	Human, Non-Human Primate	Human
CD34	Leica	PA0212	QBEND/10	Mouse	Human	Human
CD15	BD Biosciences	347420	MMA	Mouse	Human	Human
EGFR	Novus Biologicals	NBP1-84814	Polyclonal	Rabbit	Human, Mouse, Rat	Human
CUL4B	Novus Biologicals	NBP1-86099	Polyclonal	Rabbit	Human, Mouse, Rat	Human
Met	Cell Signaling	8198	D1C2	Rabbit	Human	Human
TrpV6	EMD Millipore	MABN839	4A5.1	Mouse	Human, Mouse, Rat	Human
FOLR1 (Folate Recep	LSBio	LS-B5727	polyclonal	Rabbit	Human, Mouse, Rat, Bat, Dog, Hamster, Horse, I	Human
ERbB3	Abcam	ab93739	SP71	Rabbit	Human	Human
DLL3	Abcam	ab229902	EPR22592-18	Rabbit	Mouse, Human	Human
MHC class 1	Abcam	ab240087	EPR1394Y	Rabbit	Human	Human
S1PR1	Santa Cruz Biotechnol	sc-48356	A-6	Mouse	Human	Human
S1PR2	Origene	AP01198PU-N	polyclonal	Rabbit	Human, Mouse, Rat	Human
Ki67	Leica	PA0118	MM1	Mouse	Human	Human
TdT	Invitrogen	MA5-11466	SEN28	Mouse	Human	Human
HA	?	?	N/A	N/A	Human	Human
PKC Lambda	BD Biosciences	610208	RUO	Mouse	Human	Human
CD56	Leica	CD56-504-L-CE	CD564	Mouse	Human	Human
CD44	Novus Biologicals	NB100-65535	VFF-17	Mouse	Human	Human
CK5	Biolegend	905501	Poly19055	Rabbit	Human	Human
Nestin	EMD Millipore	MAB5326	10C2	Mouse	Human	Human
NeuroD2	Invitrogen	MA5-36147	JE50-57	Rabbit	Human, Mouse, Rat	Human
DLX2	Santa Cruz Biotechnol	sc-393879	B-5	Mouse	Mouse, rat, human	Human
TBR2	Abcam	ab23345	polyclonal	Rabbit	Mouse, Human	Human
Olig1	EMD Millipore	MAB5540	N/A	Mouse	Human, Mouse, Rat	Human
GFAP	Agilent (Dako)	Z0334	polyclonal	Rabbit	Human, Cow	Human
CD45RO	Abcam	ab23	UCH-L1	Mouse	Human	Human
CD25	Leica	PA0305	4C9	Mouse	Human	Human
CD45RA	Abcam	ab755	4KB5	Mouse	Human	Human
Pten	Cell Signaling	9559	138G6	Rabbit	Human, Mouse, Rat, Monkey	Human
GFP	Abcam	ab183735	EPR14104-89	Rabbit	Species Independent	Human
p-AKT	Cell Signaling	4060	D9E	Rabbit	Human, Mouse, Rat, Monkey, Zebrafish,....	Human
Synaptophysin (Syp	Abcam	ab16659	SP11	Rabbit	Rat, Human	Human
MASH1/ASCL1	Abcam	ab211327	EPR19840	Rabbit	Mouse, Human	Human
c-PARP	Abcam	ab32064	E51	Rabbit	Mouse, Rat, Human	Human
FASN	Biomol	A301-324A	polyclonal	Rabbit	Human, Mouse	Human
ARV7	RM7	RevMab	31-1109-00	Rabbit	Human	Human
c-Myc	Abcam	ab32072	Y69	Rabbit	Mouse, Rat, Human	Human
pH2a.x	Cell signaling	9718	20E 3	Rabbit	Human, Mouse, Rat, Monkey	Human
p-ACC	Cell Signaling	9178	S79	Rabbit	Human, Mouse, Rat, Monkey	Human

Human Antibodies

Antibody	Vendor	Catalog	Clone	Host	Reactivity	Attempted on
ACC	Cell Signaling	3676S	C83B10	Rabbit	Human, Mouse	Human
VE-Cadherin/CD144	Invitrogen	17-1449-42	16B1	Mouse	Human, Mouse, Non-human primate	Human
Nestin	Cell Signaling	33475	10C2	Rabbit	Human	Human
MCAM/CD146	Cell Signaling	81701	E3F3E	Rabbit	Human, Mouse	Human
Gpx3	Abcam	ab275965	EPR19951-136	Rabbit	Human	Human
C3	Abcam	ab200999	EPR19394	Rabbit	Mouse, Rat, Human	Human, Mouse
CD55	Abcam	ab133684	EEPR6689	Rabbit	Human (we used it on mouse, so how did it wor	Human, Mouse
Nfkb1	Abcam	ab32360	E381	Rabbit	Mouse, Rat, Human	Human, Mouse
Sfrp1	Abcam	ab126613	EPR7003	Rabbit	Human (we used it on mouse, so how did it wor	Human, Mouse
Cytokeratin	Abcam	ab9377	polyclonal	Rabbit	Mouse, Rat, Cow, Dog, Human, Pig, Cynomolgu	Human, Mouse
Lef1	Abcam	ab137872	EPR2029Y	Rabbit	Mouse, Rat, Human	Human, Mouse
Wif1	Abcam	ab155101	EPR9385	Rabbit	Mouse, Rat, Human	Human, Mouse
Wnt2	Abcam	ab109222	EPR3101(2)	Rabbit	Mouse, Rat, Human	Human, Mouse
Sfrp2	Abcam	ab92667	polyclonal	Rabbit	Human (predicted to work with mouse)	Human, Mouse
Lgr5	Abcam	ab219107	polyclonal	Rabbit	Human (predicted to work with mouse)	Human, Mouse
GFP	Abcam	ab183735	EPR14104-89	Rabbit	Species Independent	Human, Mouse
ERG	Abcam	ab92513	EPR3864	Rabbit	Mouse, Rat, Human	Human, Mouse
CD31	Abcam	ab28364	polyclonal	Rabbit	Human	Human
FAP	LS Bio	LS-A8025-50	polyclonal	Rabbit	Human, Monkey, Horse	Human
SMA (Smooth Muscl	LS Bio	LS-B7351	ACTA2	Mouse	Human	Human
LRRC15	Novus Biologicals	NBP1-93556	Polyclonal	Rabbit	Human	Human
Collagen I	Abcam	ab138492	EPR7785	Rabbit	Human	Human
Glutamine Syntheta	BD Biosciences	610518	6/Glutamine Synth	Mouse	Rat, Human, Mouse	Human

Mouse Antibodies

Antibody	Company	Catalog	Clone	Host Species	Reactivity	Attempted on
c-Myc	Abcam	ab32072	Y69	Rabbit	Mouse, Rat, Human	Human, Mouse
AR	Abcam	ab108341	EPR179(2)	Rabbit	Mouse, Rat, Human	Mouse
FOXA2	Abcam	ab108422	EPR4466	Rabbit	Mouse, Human	Mouse
CD4	Abcam	ab183685	EPR19514	Rabbit	Mouse	Mouse
Gpx3	Abcam	ab256470	EPR22815-112	Rabbit	Mouse, Rat	Mouse
C3	Abcam	ab200999	EPR19394	Rabbit	Mouse, Rat, Human	Mouse, Human
CD55	Abcam	ab133684	EEPR6689	Rabbit	Human (we used it on mouse, so how did it worl	Mouse, Human
Nfkb1	Abcam	ab32360	E381	Rabbit	Mouse, Rat, Human	Mouse, Human
Sfrp1	Abcam	ab126613	EPR7003	Rabbit	Human (we used it on mouse, so how did it worl	Mouse, Human
Cytokeratin	Abcam	ab9377	polyclonal	Rabbit	Mouse, Rat, Cow, Dog, Human, Pig, Cynomolgus	Mouse
Collagen I	Abcam	ab270993	EPR24331-53	Rabbit	Mouse, Rat	Mouse
AR	Abcam	ab108341	EPR179(2)	Rabbit	Mouse, Rat, Human	Mouse
Collagen III	Abcam	ab184993	EPR17673	Rabbit	Human (we used it on mouse, and did not work.	Mouse
Lef1	Abcam	ab137872	EPR2029Y	Rabbit	Mouse, Rat, Human	Mouse, Human
Wif1	Abcam	ab155101	EPR9385	Rabbit	Mouse, Rat, Human	Mouse, Human
Wnt2	Abcam	ab109222	EPR3101(2)	Rabbit	Mouse, Rat, Human	Mouse, Human
Sfrp2	Abcam	ab92667	polyclonal	Rabbit	Human (predicted to work with mouse)	Mouse, Human
Lgr5	Abcam	ab219107	polyclonal	Rabbit	Human (predicted to work with mouse)	Mouse
Sfrp4	Abcam	ab154167	EPR9389	Rabbit	Human (predicted to work with mouse)	Mouse
E2f1 (Ube)	Abcam	ab108936	EPR4368	Rabbit	Human (predicted to work with mouse)	Mouse
Stathmin 1	Abcam	ab101690	SP49	Rabbit	Mouse, Human	Mouse
Midkine	Abcam	ab52637	EP1143Y	Rabbit	Human, recombinant fragment (we used it on m	Mouse
SDF1 (CXCL12)	Abcam	ab155090	EPR1216	Rabbit	Human (predicted to work with mouse)	Mouse
NGF	Abcam	ab52918	EP1320Y	Rabbit	Mouse, Rat, Human	Mouse
DPP4	Abcam	ab215711	EPR20819	Rabbit	Human, recombinant fragment (we used it on m	Mouse
Pan Trk	Abcam	ab246551	EPR17341-4	Rabbit	Mouse, Rat, Human	Mouse
GPCR RDC1/CXCR-7	Abcam	ab138509	EPR9321	Rabbit	Mouse, Rat, Human	Mouse
FGFR2	Abcam	ab227683	SP273	Rabbit	Human (predicted to work with mouse)	Mouse
FGFR3	Abcam	ab133644	EPR2304(3)	Rabbit	Human (we used it on mouse, don't know if it w	Mouse
KGF	Abcam	ab131162	EPR7261	Rabbit	Mouse, Rat, Human	Mouse
GFP	Abcam	ab183735	EPR14104-89	Rabbit	Species Independent	Mouse
ERG	Abcam	ab92513	EPR3864	Rabbit	Mouse, Rat, Human	Mouse, Human
MRP8	Abcam	ab92331	EPR3554	Rabbit	Mouse, Human	Mouse
CD8 alpha	Abcam	ab209775	EPR20305	Rabbit	Mouse	Mouse
PNA, Biotinylated	Vector Laboratories	B-1075	N/A	N/A	galactose (biotinylated protein)	Mouse
Notch1	Abcam	ab52627	EP1238Y	Rabbit	Mouse, Human	Mouse
CD45R	Thermofisher	14-0452-81	RA3-6B2	Rat	Mouse, Human	Mouse
CD163	Abcam	ab213612	EPR19518	Rabbit	Mouse, Rat, Human	Mouse
Synaptophysin (Syp)	BD Biosciences	611880	2/Synaptophysin (RUO	Mouse	Rat, Human, Mouse	Human, Mouse
CD8 alpha	Cell Signaling	98941	D4W2Z	Rabbit	Mouse	Mouse
FOXP3	Cell Signaling	12653	D6O8R	Rabbit	Mouse	Mouse
Ki-67	Cell Signaling	12202	D3B5	Rabbit	Mouse (we found it works on human too)	Mouse, Human
Pten	Cell Signaling	9559	138G6	Rabbit	Human, Mouse, Rat, Monkey	Mouse, Human
p-AKT	Cell Signaling	4060	D9E		Human, Mouse, Rat, Monkey, Zebrafish,....	Mouse
PAX5	Cell Signaling	12709	D7H5X	Rabbit	Human, Mouse	Mouse
FOXP3	Cell Signaling	12653	D6O8R	Rabbit	Mouse	Mouse
CD19	Cell Signaling	90176	D4V4B	Rabbit	Mouse, Human	Mouse
F4/80	Cell Signaling	70076	D2S9R	Rabbit	Mouse	Mouse
Ly-6G	Cell Signaling	87048	E6Z1T	Rabbit	Mouse	Mouse
Iba1/AIF-1	Cell Signaling	17198	E4O4W	Rabbit	Human, Mouse, Rat	Mouse
Synaptophysin	Cell Signaling	36406	D8F6H	Rabbit	Human, Mouse, Rat	Mouse
CSF-1R/M-CSF-R	Cell Signaling	67455	D3O9X	Rabbit	Human (how did it work on mouse?)	Mouse
p63	Cell Signaling	39692	D9L7L	Rabbit	Human (how did it work on mouse?)	Mouse
Glucocorticoid Receptor	Cell Signaling	12041	D6H1L	Rabbit	Human, Mouse, Rat, Monkey	Mouse
Cytokeratin	EMD Millipore	MAB3412	AE1/AE3	Mouse	Human, Rat, Mouse, Monkey, Rabbit, Bovine, Cl	Mouse, Human
CD21	Abcam	ab227662	SP186	Rabbit	Mouse	Mouse
RFP	Abcam	ab124754	polyclonal	Rabbit	Mouse, Rabbit recombinant fragment	Mouse
Periostin	Abcam	ab215199	EPR20806	Rabbit	Mouse, Rat, Human	Mouse
PORCN/PPN	Abcam	ab201793	EPR19741	Rabbit	Human	Mouse
Lgr5/GPR49	Novus Biologicals	NBP1-28904	polyclonal	Rabbit	Human, Mouse, Porcine	Mouse
NOTUM	Abcam	ab106448	polyclonal	Rabbit	Mouse, Rabbit, Human	Mouse