

Cell DIVE™ Validated Antibody List

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Antibody availability is constantly changing, therefore the antibodies on this list are subject to change without notice.

Table Key

- **Protein.** Accepted gene/protein name as defined by HUGO Gene Nomenclature Committee (HGNC, www.genenames.org). "N/A" indicates that the gene/protein name is not available or not applicable.
- **Clone.** For monoclonal antibodies, the specific clone evaluated is listed. Polyclonal antibodies are indicated as "polyclonal".
- **Vendor and Catalog number.** Vendor and catalog number of the specific antibody that was validated for use with the Cell DIVE process. If the antibody will be sourced from an alternate vendor, it should be evaluated prior to use in a Cell DIVE study. Antibodies that can not be sourced from the original vendor (discontinued, etc.) can be found in a separate table beginning on page 18. A catalog number followed by ** indicates an antibody that is known to leach. A catalog number followed by *** indicates an antibody that requires a crowding agent.
- **Validated as.**
 - **P/S.** An "x" in this column indicates that the antibody was successfully evaluated as a primary/secondary.
 - **DC.** An "x" in this column indicates that the antibody was successfully evaluated as a non-commercial direct conjugate (DC). A "CC" in this column indicates that the antibody was tested as a commercially-available direct conjugate. A "CC*" indicates that the antibody is available as a custom conjugate from the vendor.
- **Antigen effects.** Details whether antigen effects were observed for the antibody.
 - **Present.** "No AE" indicates no antigen effects were observed. A number in this column indicates that antigen effects were observed in that round for the antibody. "Not tested" indicates antigen effects testing was not performed.
 - **Rounds.** Indicates the number of rounds tested for antigen effects.
- **Conjugation.** Only antibodies that were successfully evaluated as a direct conjugate will have data in these columns.
 - **Dye.** Indicates the dye used for direct conjugation. "AF" indicates an Alexa Fluor™ dye was used. "DL" indicates that a DyLight™ dye was used. "Zenon" followed by the dye name indicates that a Zenon™ Antibody Labeling Kit was used instead of traditional direct conjugation.
 - **D:P.** Indicates the dye-to-protein ratio used for conjugation. For commercial conjugates, this information is often unavailable.
 - **Conc/Dil.** Indicates the final concentration or dilution used for slide labeling. Concentration is provided in µg/mL. Dilution is listed in situations where concentration is not known (commercial conjugates, etc.) and is provided as a ratio (i.e. 1:100).

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
14-3-3 sigma	SFN	1433S01	Thermo Fisher	MA5-11663	x	x	No AE	10	Cy™3	5.9-6.4	20
4E-BP1	EIF4EBP1	53H11	Cell Signaling Technology (CST)	9644	x	x	No AE	10	Cy3	3	5
4E-BP1 (pThr37/46)	EIF4EBP1	236B4	CST	2855	x	x	No AE	10	Cy5	3.1-4.2	2.5
Actin, Beta	ACTB1	13E5	CST	4970	x	x	10	10	Cy5	4.9	10
ADRP	PLIN2	AP125	Fitzgerald	10R-A117A	x		Not tested			N/A	
Akt (Pan)	AKT1, AKT2, AKT3	C67E7	CST	4691	x	x	No AE	10	Cy3	6.3	20
Akt (pSer473)	AKT1	LP18	Leica Biosystems	NCL-L-Akt-Phos	x		Not tested			N/A	
Albumin	ALB	HSA-11	Millipore Sigma	A6684	x	x	10	10	Cy5	4.1	5
ALDH	ALDH1A1	44/ALDH	BD Biosciences	611195	x	x	No AE	10	Cy5	1.9-2.8	5–10
ALDH1L1	ALDH1L1	N103/39	Antibodies Inc.	75-140	x	x	Not tested		Cy3	5.6-5.9	10
Alix	Alix	Polyclonal	Abcam	ab76608	x		Not tested			N/A	
ALK	ALK	5A4	Leica Biosystems	ALK-L-CE-H	x		Not tested			N/A	
AMACR	AMACR	13H4	Biocare	3024	x		Not tested			N/A	
			Zeta	Z2001L	x	x	Not tested		Cy5	2.6	5
AML3	RUNX2	Polyclonal	Millipore Sigma	HPA022040	x	x	No AE	10	Cy3	4.6	5
AMPH2	BIN1	99D	Millipore Sigma	05-449	x	x	No AE	10	Cy5	2.2	5
Amphiregulin	AREG	Polyclonal	R&D Systems	AF989	x	x	2	10	Cy5	4	10
AMPK beta 1	PRKAB1	Y367	Abcam	ab32112	x	x	No AE	10	Cy5	3.8	10
Amyloid, Beta (1-16) APP		6E10	BioLegend	803001	x	x	No AE	10	Cy3	3.4-4.0	5–10
									Cy5	1.7	10
Amyloid, Beta (1-40) APP	APP	11A50-B10	BioLegend	805401	x	x	No AE	10	Cy5	4.1	5
Amyloid, Beta (x-42) APP	APP	12F4	Millipore Sigma	05-831-I	x	x	No AE	10	Cy5	3.9	5
Androgen Receptor	AR	AR441	Abcam	ab9474	x		No AE	10		N/A	

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
Angiopoietin-2	ANGPT2	Polyclonal	R&D Systems	AF623	x	x	2	10	Cy3B	4.3	5
ANGPT4	ANGPT4	1B7	Abnova	H00051378-M01	x		No AE	10		N/A	
Apaf-1	APAF1	2E12	Millipore Sigma	MAB3503-I	x		Not tested			N/A	
Apolipoprotein E	APOE	Polyclonal	Millipore Sigma	AB947	x	x	10	10	Cy5	2.2	5
									Cy7	2	5
Apo E4	APOE	5A9	BioLegend	811701	x	x	No AE	10	Cy3	2.6	5
Apo-J	CLU	Polyclonal	Rockland	600-101-198	x	x	No AE	10	Cy3	4.2	5
									Cy7	1.9-2.5	15
AQP1	AQP1	Polyclonal	Proteintech	20333-1-AP	x	x	No AE	10	Cy5	2.1	10
Arc	ARC	C-7	Santa Cruz	sc-17839		CC	Not tested		AF647	N/A	5
Arg1	ARG1	EPR6672(B)	Abcam	ab133543	x		1	10		N/A	
ARHGEF17	ARHGEF17	Polyclonal	Abnova	PAB13013	x		Not tested			N/A	
ATM (pSer1981)	ATM	EP1890Y	Abcam	ab81292	x	x	No AE	10	Cy3	4.1	20
ATP5F1A	ATP5F1A	EPR13030(B)	Abcam	ab196198		CC	Not tested		AF647	N/A	5
Aurora A	AURKA	EP1008Y	Abcam	ab52973	x	x	No AE	10	Cy3	6.2	20
Aurora B	AURKB	EP1009Y	Abcam	ab45145	x	x	10	10	Cy5	1.7	10
BACE	BACE1	61-3E7	Santa Cruz	sc-33711	x		No AE	10		N/A	
		D4E4	CST	12105	x		No AE	10		N/A	
Bak	BAK1	Y164	Abcam	ab220790	x	x	No AE	10	Cy3	2.4	10
				ab32371	x	x	No AE	10	Cy3	4.9	10
Bax	BAX	E63	Abcam	ab216985	x	x	No AE	10	Cy3	2.6	10
Bcl-2	BCL2	100/D5	Fisher Scientific	MS123RQ	x		Not tested			N/A	
Bcl-XL	BCL2L1	7D9	Thermo Fisher	MA5-11950	x	x	No AE	10	Cy5	1.4	10
BCRP	ABCG2	BXP-21	Millipore Sigma	MAB4146	x	x	1	10	Cy3	5.4	10
Beclin-1	BECN1	Polyclonal	Millipore Sigma	PRS3613	x	x	No AE	10	Cy5	3.4	10
Beta-Catenin	CTNNB1	15B8	Millipore Sigma	C7207	x	x	Not tested		Cy2	4.1	10
				C7738		CC	Not tested		Cy3	7.6	2.5
			Novus Biologicals	NBP2-54544AF750		CC	Not tested		AF750		1:100
BID	BID	B-3	Santa Cruz	sc-373939	x		No AE	10		N/A	
				sc-373939 AF647		CC	No AE	10	AF647	N/A	5

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
Bim	BCL2L11	Y36	Abcam	ab170589	x		Not tested			N/A	
		H-5	Santa Cruz	sc-374358	x		Not tested			N/A	
		Polyclonal	R&D Systems	AF1325	x		Not tested			N/A	
BiP	HSPA5	C50B12	CST	3177	x	x	Not tested		Cy3	3.1–4.2	10
BMI-1	BMI1	F6	Millipore Sigma	05-637	x	x	Not tested		Cy3	4.6	20
BRCA1	BRCA1	Polyclonal	Millipore Sigma	07-434	x	x	No AE	10	Cy3	3.6	10
C3	C3	Polyclonal	Quidel	A304	x	x	No AE	5	Zenon-AF647	3	10
C4d	C4B	Polyclonal	Abcam	ab36075	x		Not tested			N/A	
C9orf72 (Poly-GA)	C9Orf72	Polyclonal	Cosmo Bio	CAC-TIP-C9-P01	x		Not tested			N/A	
C9orf72 (Poly-GR)	C9Orf72	5A2	Millipore Sigma	MABN778	x		Not tested			N/A	
Cadherin 1	CDH1	24E10	CST	3195	x	x	Not tested		Cy5	4	5
Cadherin 3 (P-Cadherin)	CDH3	56/P-Cadherin	BD Biosciences	610228	x	x	No AE	10	Cy5	2.2	20
Calbindin (D-28K)	CALB1	CB-955	Millipore Sigma	C9848	x	x	10	10	Cy5	1.7	10
		Polyclonal	Swant	CB38	x	x	Not tested		Zenon-AF647	3	10
Calretinin	CALB2	DAK-Calret 1	Agilent	M7245	x	x	1	10	Cy5	4.5	5
		Polyclonal	Swant	CR 7697	x	x	Not tested		Zenon-AF647	3	10
CAMK2	CAMK2A	EPR6686(2)	Abcam	ab134041	x		Not tested			N/A	
Carbonic Anhydrase IX	CA9	Polyclonal	Thermo Fisher	PA1-16592	x	x	Not tested		Cy3	4.3	20
									Cy5	2.9	10
Caspase-3	CASP3	D3R6Y	CST	14214	x	x	Not tested		Cy5	3.1	10
Caspase-3 (Cleaved Asp175)	CASP3	5A1E	CST	9664	x	x	No AE	10	Cy5	4.5	5
Caspase-6 (Cleaved-Asp179)	CASP6	Polyclonal	Aviva	OAAF05316	x		Not tested			N/A	
Caspase-9	CASP9	96.1.23	Santa Cruz	sc-56076	x		No AE	10		N/A	
				sc-56076 AF647		CC	No AE	10	AF647	N/A	5
CD3	CD3	F7.2.38	Agilent	M7254	x	x	5	10	Cy5	2.5	5
CD3d	CD3D	EP4426	Abcam	ab208514		CC	Not tested		AF555	N/A	1:100
				ab198937		CC	Not tested		AF647	N/A	1:100
CD3e	CD3E	D7A6E™	CST	85061		CC*	Not tested		AF555	6.9	10

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
CD4	CD4	EPR6855	Abcam	ab181724	x	x	No AE	10	Cy3B	2.6	5
				ab196147		CC	No AE	10	AF647	N/A	1:100
		D7D2Z	CST	25229		CC*	Not tested		AF555	2.2	20
CD5	CD5	SP19	Millipore Sigma	205R-1	x		Not tested			N/A	
CD8a	CD8A	C8/144B	Agilent	M7103	x	x	No AE	10	Cy5	2.6	5
			BioLegend	372908		CC	No AE	10	AF647	N/A	10
		D8A8Y	CST	85336		CC*	Not tested		AF750	3.5-9.2	10
CD10	MME	56C6	Leica Biosystems	NCL-L-CD10-270	x	x	No AE	10	Cy5	2	10
CD11b	ITGAM	D6X1N	CST	49420		CC*	Not tested		AF750	4.6	20
CD11c	ITGAX	D3V1E	CST	45581		CC*	Not tested		AF647	5.6	1:100
		5D11	Leica Biosystems	CD11C-563-L-CE	x		No AE	10		N/A	
CD15	FUT4	Carb-3	Agilent	M3631	x		No AE	30		N/A	
CD16	FCGR3A	DJ130c	Santa Cruz	sc-20052	x	x	No AE	10	Cy5	2.5	5
CD20	MS4A1	EP459Y	Abcam	ab78237	x	x	Not tested		Cy3	4.1	5
				ab198943		CC	Not tested		Cy5	2.4	5
		E7B7T	CST	48750**		CC*	Not tested		AF647	N/A	1:100
CD21	CR2	EP3093	Abcam	ab75985	x		Not tested		AF647	2.6-7.6	10
CD21	CR2	EP3093	Abcam	ab75985	x		Not tested		N/A		
CD31	PECAM1	89C2	CST	3528	x	x	No AE	10	Cy3	3.8	5
				61255		CC	Not tested		AF555	5.9	1:100
CD32	FCGR2A	EPR6657(2)	Abcam	ab155972	x	x	No AE	10	Cy5	2.3	5
CD34	CD34	BI-3C5	Santa Cruz	sc-19621	x	x	5	10	Cy5	2.1	5
		QBEnd/10	Leica Biosystems	END-L-CE	x	x	No AE	10	Zenon-AF647	3	10
CD38	CD38	SPC32	Leica Biosystems	CD38-290-L-CE	x		Not tested			N/A	
CD44	CD44	156-3C11	CST	3570	x		No AE	10		N/A	
			Novus Biologicals	NBP2-34520AF750		CC	No AE	10	AF750	N/A	1:100
CD44var (v6)	CD44	VFF-7	Thermo Fisher	BMS116	x	x	1	10	Cy3	5	5

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
CD45	PTPRC	2B11 + PD7/26	Agilent	M0701	x	x	No AE	10	Cy3	4.3	10
		D9M8I	CST	13917		CC*	Not tested		AF750	3.4-8.2	10
CD45RA	PTPRC	OX-33	BD Biosciences	561886		CC	Not tested		FITC	N/A	5
CD45RO	PTPRC	UCHL1	Agilent	M0742	x	x	No AE	10	Cy5	1.5	5
			BioLegend	304202		x	No AE	10	AF647	2.5	15
CD56	NCAM1	E7X9M	CST	99746		CC*	Not tested		AF647	2.1	20
		MRQ-42	Millipore Sigma	156R-9	x		No AE	10		N/A	
CD64	FCGR1A	3D3	Abcam	ab140779	x	x	No AE	10	Cy3	3.5	5
			Fisher Scientific	MS397P1	x	x	No AE	10	Cy5	4.1	5
CD68	CD68	KP1	Biotium	BNUB0512-500		CC	No AE	10	CF555	N/A	
			Abcam	ab279323		CC	Not tested		AF555	N/A	1:100
		D4B9C	CST	23308		CC	Not tested		AF555	5.7	0.5
CD79 alpha	CD79A	JCB117	Agilent	M7050	x	x	No AE	30	Cy3	2.8	10
			Biotium	BNUB0476		CC*	No AE	10	CF450	N/A	10
		D1X5C	CST	13333		CC*	Not tested		AF555	3.3	10
CD100	SEMA4D	30/CD100	BD Biosciences	610671	x		Not tested			N/A	
CD137	TNFRSF9	BBK-2	Fisher Scientific	MS621PABX	x		Not tested			N/A	
		EDHu-1	BioRad	MCA1853	x		No AE	10	Cy3	3.3	10
CD163	CD163	D6U1J	CST	93498		CC*	Not tested		AF647	3.5-9.2	10
		17B4	Novus Biologicals	NBP110-40686AF750**		CC	No AE	10	AF750	N/A	1:100
CDC7	CDC7	DCS-341	Millipore Sigma	C6613	x		10	10		N/A	
CDC25C	CDC25C	E302	Abcam	ab32444	x		10	10		N/A	
CDCP1	CDCP1	Polyclonal	CST	4115	x	x	No AE	10	Cy3	4.1	20
CDK6	CDK6	8H4	Millipore Sigma	WH0001021M1	x		Not tested			N/A	
CDX2	CDX2	D11D10	CST	12306	x	x	No AE	10	Cy3	4.1	10
Chk2 (pThr68)	CHEK2	C13C1	CST	2197	x	x	No AE	10	Cy3	6.6	10
c-IAP1	BIRC2	Polyclonal	R&D Systems	AF8181	x	x	No AE	10	Cy5	1.8	10
clAP2	BIRC3	E40	Abcam	ab239800	x		No AE	10		N/A	
Claudin-1	CLDN1	1C5-D9	Novus Biologicals	H00009076-M01	x	x	No AE	10	Cy3	4.7	10
CNPase	CNP	D83E10	CST	5664	x	x	No AE	10	Cy5	4	5

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
Cofilin	CFL1	Polyclonal	Abcam	ab42824	x	x	No AE	10	Cy7	2.2	5
Collagen IV	COL4A1	IV-4H12	Millipore Sigma	MAB3326	x	x	No AE	10	Cy3	3.9	2.5
									Cy7	3.5	5
Creb	CREB1	polyclonal	Bethyl	IHC-00332	x	x	No AE	10	Cy3	3.8	10
Creb (pSer133)	CREB1	87G3	CST	9198	x	x	No AE	10	Cy5	3.9	6
CSF-1-R	CSF1R	SP211	Abcam	183316	x		Not tested		N/A		
CTLA-4	CTLA4	CAL49	Abcam	ab270127		CC	Not tested		AF647	N/A	1:100
		CAL49	Abcam	ab283489		CC	Not tested		AF555	N/A	1:100
		E2V1Z	CST	53560		CC*	Not tested		AF647	5.2	20
CX3CR1	CX3C1R	Polyclonal	Abcam	ab7201	x		No AE	10	N/A		
Cyclin A2	CCNA1	Y193	Abcam	ab32386	x	x	No AE	10	Cy3	5	10
Cyclin B1	CCNB1	Y106	Abcam	ab32053	x	x	No AE	10	Cy3B	3.6	10
									Zenon-AF555	3	20
Cyclin D1	CCND1	EPR2241	Abcam	ab134175	x	x	No AE	10	Cy5	3.5	10
Cyclin E1	CCNE1	HE12	Abcam	ab3927	x		10	10	N/A		
Cytokeratin 5	KRT5	3E2F1	Santa Cruz	sc-81702	x	x	No AE	10	Cy2	5.8	20
									Cy3	4.1	10
Cytokeratin 5/6	KRT5 KRT6	D5/16 B4	Agilent	M7237	x	x	1	10	Cy5	2.4	10
Cytokeratin 7	KRT7	OV-TL 12/30	Agilent	M7018	x	x	No AE	10	Cy5	2.1	20
Cytokeratin 8/18	KRT8 KRT18	Zym5.2 (UCD/PR.10-	Thermo Fisher	18-0213	x	x	Not tested		Cy7	2.4	15
Cytokeratin-15	KRT15	Polyclonal	Millipore Sigma	HPA023910	x	x	No AE	10	Cy3	4	5
Cytokeratin-18	KRT18	Polyclonal	Millipore Sigma	HPA019367	x	x	No AE	10	Cy3	3.2	20
Cytokeratin 20	KRT20	Ks 20.8	Agilent	M7019	x	x	No AE	10	Cy3	3.5	2.5
									Cy5	2.3	10

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					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
Cytokeratin (Pan)	PANCK	AE1	Thermo Fisher	14-9001-82	x	x	No AE	10	Cy2	5.1	10
									Cy3	2.7–3.2	3–10
									Cy5	1.8–2.0	5
									Cy7	1.8–2.4	5–10
		AE1/AE3	Agilent	M3515	x		Not tested		N/A		
			Thermo Fisher	53-9003-82			CC	Not tested		AF488	N/A
		AE3	Thermo Fisher	14-9000	x		Not tested		N/A		
		C11	CST	4523			CC	Not tested		AF488	5.7
				3478	CC	Not tested		AF555	6.2	3.2	
		PCK26	Millipore Sigma	C1801		x	x	No AE	10	Cy2	5.4
					Cy3					2.7–3.3	3–5
					Cy5					1.7	5
					Cy7					4.0–4.1	5–10
C5992	CC				No AE					10	AF750
Dact1	DACT1	Polyclonal	Abcam	ab42547	x		5	10	Cy5	2.7	12.5
Desmin	DES	Y66	Abcam	ab32362	x		Not tested		N/A		
DLL4	DLL4	200	Millipore Sigma	WH0054567M4	x		5	10	Cy3B	3.5	5
Doublecortin	DCX	Polyclonal	CST	4604	x		Not tested		N/A		
DR5/TRAILR2	TNFRSF10B	Polyclonal	Novus Biologicals	NB100-56618	x		Not tested		N/A		
		D-6	Santa Cruz	sc-166624	x		Not tested		N/A		
e1F4B	EIF4B	EP2299Y	Abcam	ab68474	x		No AE	10	N/A		
e1F4B (pSer422)	EIF4E	Polyclonal	Lifespan	LS-C97575	x		No AE	10	N/A		
E2F1	E2F1	Polyclonal	Novus Biologicals	28510002	x		No AE	10	N/A		
EGFR	EGFR	D38B1	CST	4267	x	x	No AE	10	Cy3	4.3	10
				5108		CC	Not tested		AF555	7.5	1:100
				5588		CC	Not tested		AF647	N/A	1
EGFR (pTyr1068)	EGFR	EP774Y	Abcam	ab182618	x	x	No AE	10	Cy5	1.3	5
e1F4E	EIF4E	C46H6	CST	2067	x	x	No AE	10	Cy3	4.7	20
e1F4E (pSer209)	EIF4E	EP2151Y	Abcam	ab76256	x	x	No AE	10	Cy3	4.6	5
e1F4G	EIF4G	C45A4	CST	2469	x	x	No AE	10	Cy3	6.2	10

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
EpCAM	EPCAM	E144	Abcam	ab32392	x	x	5	10	Cy3	3.1	10
		VU1D9	CST	5447		CC	Not tested		AF647	N/A	3–10
EphB2	EPHB2	Polyclonal	R&D Systems	AF467	x	x	Not tested		Cy5	2.4	10
ER	ESR1	6F11	Leica Biosystems	PA0151	x	x	No AE	10	Cy3	5.9	5
									Cy5	3	10
ERG	ERG	EPR3864	Abcam	ab92513	x	x	Not tested		Cy3	3.2	15
Erk1/2	MAPK1 MAPK3	137F5	CST	4695	x	x	No AE	10	Cy3	4.9	5
Erk1/2 (pThr202/pTyr204)	MAPK1 MAPK3	20G11	CST	4376	x	x	No AE	10	Cy5	2.1	5
Ezh2	EZH2	D2C9	CST	5246	x	x	No AE	10	Cy3	4.9	5
FADD	FADD	Polyclonal	Millipore Sigma	06-711	x		Not tested			N/A	
		EPR5030	Abcam	ab229444	x	x	No AE	10	Cy3	4.0–6.3	10
Fak	PTK2	EP695Y	Abcam	ab40794	x		No AE	10	Cy5	2.4	10
FAP	FAP	Polyclonal	Millipore Sigma	SAB2900181	x		Not tested			N/A	
FAS	FAS	EPR7466	Abcam	ab128870	x		Not tested		Zenon-AF555	3	10
FGF Receptor 1	FGFR1	D8E4	CST	9740	x	x	No AE	10	Cy3B	3.9–4.8	10
FGFR2	FGFR2	Polyclonal	Abcam	ab58201	x	x	No AE	10	Cy3B	2	5
FGF Receptor 3	FGFR3	C51F2	CST	4574	x	x	No AE	10	Cy5	2.6	10
Fibronectin	FN1	F14	Abcam	ab45688	x	x	No AE	10	Cy5	3.4	5
FKBP51	FKBP51	EPR6617	Abcam	ab126715	x		Not tested			N/A	
FLIP	FLIP	896537	R&D Systems	MAB8430	x		Not tested			N/A	
Fos/cFos	FOS	E-8	Santa Cruz	sc-166940	x		Not tested			N/A	
FoxO1	FOXO1	C29H4	CST	2880	x	x	No AE	10	Cy5	2.1	5
FOXP3	FOXP3	206D	BioLegend	320114***		CC	3	10	AF647	N/A	10
		D2W8E™	CST	98377		CC*	Not tested		AF647	5.6	50
FSP	N/A	1B10	Millipore Sigma	F4771	x		No AE	10		N/A	
FTL	FTL	Polyclonal	Abcam	ab69090	x	x	Not tested		Cy7	2.9	10
G6PD	G6PD	G-12	Santa Cruz	sc-373886	x	x	Not tested		Cy5	1.9–2.3	10
GAPDH	GAPDH	14C10	CST	3906		CC	Not tested		AF488	6.6	10
				3907		CC	Not tested		AF647	N/A	1.25

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
GAP43	GAP43	Polyclonal	Novus Biologicals	NB300-143	x		Not tested			N/A	
GDNF	GDNF	Polyclonal	Abcam	ab18956	x		Not tested			N/A	
GFAP	GFAP	G-A-5	CST	3655		CC	Not tested		AF488	7.7	5
			Millipore Sigma	G3893	x		No AE	10		N/A	
				C9205		CC	Not tested		Cy3	N/A	1:100
Glut-1	SLC2A1	Polyclonal	Millipore Sigma	07-1401	x	x	No AE	10	Cy3	4.5	5
Granzyme B	GZMB	GrB-7	Agilent	M7235	x	x	Not tested		Cy3	5	10
		D6E9W	CST	46890		CC*	Not tested		AF555	6.5	20
GSK-3 alpha (pSer21)	GSK3A	36E9	CST	9316	x	x	No AE	10	Cy5	2	10
GSK3b	GSK3B	Y174	Abcam	ab32391	x	x	Not tested		Cy5	3.5	20
									Cy7	3.1	10
GSK-3b (pSer9)	GSK3B	EPR2286Y	Abcam	ab75814	x	x	No AE	10	Cy5	1.7	10
H2A.X (pSer139)	H2AX	EP854(2)Y	Abcam	ab81299	x		Not tested			N/A	
				ab206900		CC	Not tested		AF555	N/A	10
Hepsin	HPN	Polyclonal	Thermo Fisher	R0203-1D	x		Not tested			N/A	
Her2	ERRB2	D8F12	CST	4290	x	x	No AE	10	Cy5	1.7	5
Her2 (pTyr1221/1222)	ERRB2	6B12	CST	2243	x		Not tested			N/A	
Her3 (pTyr1328)	ERRB3	Polyclonal	SAB	11510-1	x		Not tested			N/A	
Her4	ERRB4	Polyclonal	Lifespan	LS-C88427	x	x	Not tested		Zenon-AF555	3	20
							Not tested		Zenon-AF647	3	10
Hexokinase II	HK2	C64G5	CST	2867	x	x	No AE	10	Cy3	4.9	15
HIF-1 alpha	HIF1A	mgc3	Abcam	ab16066	x		Not tested			N/A	
		EP1215Y	Abcam	ab51608	x	x	No AE	10	Cy5	1.9	5
HLA Class 1 ABC	HLA-A	EMR8-5	Abcam	ab70328	x	x	Not tested		Cy3	2.7	10
HSP27	NUP124	G31	CST	2402	x		Not tested			N/A	
HSP27 (pSer78)	NUP124	Polyclonal	CST	2405	x	x	No AE	10	Cy5	2.1	10
HSP27 (pSer82)	NUP124	Polyclonal	CST	2406	x	x	10	10	Cy5	4.6	10
Hsp70	HSPA4	EP1007Y	Abcam	ab45133	x	x	No AE	10	Cy3	3.3	10
HSP90	HSP90AA1	C45G5	CST	4877	x	x	No AE	10	Cy5	3.9	10

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
HuD	ELAVL4	E-1	Santa Cruz	sc-28299	x	x	Not tested		AF647	1.9	1.9
Iba1	AIF1	Polyclonal	Wako Chemicals USA	019-19741	x	x	No AE	10	Cy5	2.2	5
									Cy7	2.5	10
IDH1	IDH1	OTI2H9	Origene	TA500610	x		10	10	N/A		
Ihh	IHH	EP1192Y	Abcam	ab52919	x	x	Not tested		Cy3	7.2	20
IL-6	IL6	Polyclonal	Abcam	ab6672	x		No AE	10	N/A		
Integrin Linked ILK	ILK	EP1593Y	Abcam	ab52480	x		1	10	N/A		
IR	INSR	83-7	Fisher Scientific	MS632P1	x	x	No AE	10	Cy3	6.4	20
IRS1	IRS1	EP263Y	Abcam	ab40777	x		No AE	10	N/A		
ITGA6	ITGA6	Polyclonal	Millipore Sigma	HPA012696	x	x	No AE	10	Cy5	2.6	5
Jagged1	JAG1	EPR4290	Abcam	ab109536	x	x	No AE	10	Cy5	1.6	10
Ki-67	MKI67	SP6	Zeta	Z2031	x	x	No AE	10	Cy5	2.4	10
		EPR3610	Abcam	ab215226		CC	No AE	10	AF555	N/A	1:100
		D2H10	CST	9027		CC*	Not tested		AF647	3.5-8.1	10
KIF11	KIF11	Polyclonal	Millipore Sigma	HPA010568	x		No AE	10	N/A		
KLH	N/A	Polyclonal	Novus Biologicals	NB120-7054		x	Not tested		Cy3	3-4.1	5
LAG-3	LAG3	D2G4O	CST	15372		CC*	Not tested		AF750	8.3	20
		17B4	Novus Biologicals	NBP1-97657IR**		CC	No AE	10	DL755	N/A	1:100
Lamin (Pan)	LMNA LMNC	EPR4100	Abcam	ab108595	x	x	No AE	10	Cy3	3.7	20
LAMP1	LAMP1	Polyclonal	Abcam	ab24170	x		No AE	10	N/A		
LC3A	MAP1LC3A	D50G8	CST	4599	x	x	No AE	10	Cy5	5.1	5
LC3	MAP1LC3B	Polyclonal	Abcepta	AP1802A	x		Not tested		N/A		
LDHA	LDH-A	C4B5	CST	3582	x	x	10	10	Cy3	3.3-3.7	10
Lgr5	LGR5	Polyclonal	Millipore Sigma	HPA012530	x		Not tested		N/A		
MAGE1	MAGEA1	MA454	Thermo Fisher	MA5-11338	x		No AE	10	N/A		
MAP2	MAP2	HM-2	Millipore Sigma	M4403	x	x	No AE	10	Cy3	3.4	10
									Cy5	2.3	5
MAPKAPK2	MAPKAPK2	2B3	Millipore Sigma	WH0009261M1	x	x	10	10	Cy5	1.6	10

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
MAPKAPK2 (pThr334)	MAPKAPK2	27B7	CST	3007	x	x	No AE	10	Cy5	2.6	5
MBP	MBP	F-6	Santa Cruz	13914	x		No AE	10		N/A	
MCL1	MCL1	Y37	Abcam	ab32087	x		Not tested			N/A	
MCM2	MCM2	D7G11	CST	3619	x	x	No AE	10	Cy3	5.8	10
MEK5	MAP2K5	Polyclonal	Enzo	ADI-KAP-MA003	x		Not tested			N/A	
Met (c-Met)	MET	SP44	Abcam	ab227637	x		No AE	10		N/A	
		D1C2	CST	8198	x	x	No AE	10	Cy5	3.4	15
Met (c-Met, pTyr1234/1235)	MET	D26	CST	3077	x	x	No AE	10	Cy3	4	10
Met (c-Met, pTyr1349)	MET	Ep2367Y	Abcam	ab68141	x	x	No AE	10	Cy3	6.7	10
MHC_II	HLA-DRA	LN3	Fisher Scientific	MS133PABX	x	x	10	10	Cy5	1.9	10
MLH1	MLH1	EPR3894	Abcam	ab92312	x	x	No AE	10	Cy5	2.4	10
MLKL	MLKL	3D4C6	Thermo Fisher	66675-1-IG	x		Not tested			N/A	
		EPR17514	Abcam	ab184718	x		Not tested			N/A	
MNK (pThr197/Thr202)	MKNK1	18H4L11	Thermo Fisher	700242	x	x	No AE	10	Cy5	2.2	10
MPO	MPO	9B12G7	Lifespan	LS-B3899	x		Not tested			N/A	
Msh2	MSH2	D24B5	CST	2017	x	x	No AE	10	Cy5	5.1	10
MSH6	MSH6	EPR3945	Abcam	ab92471	x		No AE	10	Cy5	2.8	10
MSR1	MSR1	Polyclonal	R&D Systems	AF2708	x		Not tested			N/A	
MSRA	MSRA	Polyclonal	Abcam	ab16803	x		Not tested			N/A	
mTor	MTOR	7C10	CST	2983	x	x	No AE	10	Cy3	8.2	30
mTor (pSer2448)	MTOR	49F9	CST	2976	x	x	No AE	10	Cy3B	4.5	5
Mucin 2	MUC2	Ccp58	Santa Cruz	sc-7314	x		Not tested		Zenon-AF555	3	2
Myc (c-Myc)	MYC	Y69	Abcam	ab190560		CC	No AE	10	AF647	N/A	10
NAKATPase	ATP1A1	EP1845Y	Abcam	ab76020	x	x	No AE	10	Cy3	3.9–4.4	5
									Cy5	2.9–3.4	2.5
		D4Y7E	CST	ab198367		CC	No AE	10	Cy7	4.6–4.9	5–10
									AF647	N/A	1:100
		D4Y7E	CST	23565		CC*	Not tested		AF488	6.3-8.2	10

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
NapsinA	NAPSA	IP64	Leica Biosystems	NCL-L-NapsinA	x	x	No AE	10	Cy3	3.4	1
									Cy5	2.2	8
N cadherin	CDH2	3B9	Thermo Fisher	33-3900	x		Not tested		N/A		
NDRG1 (pThr346)	NDRG1	D98G11	CST	5482	x	x	No AE	10	Cy3	3.5–4.2	5–10
NDRG1 (pThr346)	NDRG1	D98G11	CST	5482	x	x	No AE	10	Cy3	4.2	10
				7497		CC	No AE	10	AF647	6.6	1:100
Nestin	NES	10C2	BioLegend	656810		CC	Not tested		AF647	N/A	10
NeuN	RBFOX3	A60	Millipore Sigma	MAB377	x	x	No AE	10	AF647	3.2	2.5
Neuregulin-4	NRG4	Polyclonal	Millipore Sigma	HPA010957	x	x	Not tested		Cy5	3.1	10
Neurofilament H	NEFH	SMI 31	BioLegend	801601	x	x	No AE	10	Cy3	3.5	5
				801701	x		No AE	10	Zenon-AF647	3	10
Neurofilament Protein	SLC6A9	2F11	Agilent	M0762	x		No AE	10	Zenon-AF555	3	10
Neuropilin 1	NRP1	EPR3113	Abcam	ab81321	x		No AE	10	N/A		
NF-kB p105 (pSer933)	NFKB1	178F3	CST	4808	x		No AE	10	Zenon-AF647	3	10
NF-kB p65 (pSer276)	NFKB1	Polyclonal	CST	3037	x	x	5	10	Cy5	3.7	20
NG2	CSPG4	Polyclonal	Millipore Sigma	AB5320	x	x	2	10	Cy5	3.4	5
NKG2D	KLRK1	Polyclonal	GeneTex	GTX104761	x		Not tested		Zenon-Cy3	3	10
Notch1	NOTCH1	D1E11	CST	3608	x	x	No AE	10	Cy3B	4.7	10
Notch3	NOTCH3	8G5	CST	3446	x		Not tested		N/A		
NR1	GRIN1	54.1	Millipore Sigma	MAB363	x		Not tested		N/A		
NRP2	NRP2	Polyclonal	R&D Systems	AF2215	x	x	No AE	10	Cy3B	2.7–3.2	10
Oct2	POU2F2	Oct-207	Leica Biosystems	PA0532	x		5	30	N/A		
		ZO001	Invitrogen	39-5400	x		Not tested		N/A		
p21 Waf1/Cip1	CDKN1A	12D1	CST	2947	x	x	No AE	10	Cy3	3.6	5
									Cy5	2.3	5–10
p38 MAPK (pThr180/Tyr182)	MAPK14	D3F9	CST	4511	x		Not tested		Cy5	2.3	10
p53 Protein	TP53	DO-7	Agilent	M7001	x	x	No AE	10	Cy5	1.5–1.8	1

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
p63	TP63	4A4	Abcam	ab735	x		No AE	10		N/A	
p120 Catenin	CTNND1	98/pp120	BD Biosciences	610133	x		No AE	5	Zenon-AF555	3	20
Park7/Dj1	PARK7	EP2816Y	Abcam	ab76241	x		Not tested			N/A	
Parvalbumin	PVALB	PV 235	Swant	PV 235	x	x	No AE	10	Cy3	5.7–6.4	10
Pax-5	PAX5	RBT-PAX5	Bio SB	BSB 5866	x	x	10	30	Cy5	2.6	5
PBR	TSPO	EPR5384	Abcam	ab109497	x	x	10	10	Cy3	3	5
PD-1	PDCD1	EPR4877(2)	Abcam	ab137132	x	x	No AE	10	Cy5	2.4	5
				ab201825		CC	No AE	10	AF647	N/A	1:100
		D4W2J	CST	86163		CC*	Not tested		AF750	9.7	10
PDCD4	PDCD4	EPR3431	Abcam	ab80590	x	x	1	10	Cy5	2.2	10
PDCD4 (pSer67)	PDCD4	Polyclonal	Millipore Sigma	P0072	x	x	1	10	Cy5	1.9	10
PDGF Receptor alpha	PDGFRA	Polyclonal	CST	3164	x		1	10		N/A	
PDGF Receptor beta	PDGFRB	28E1	CST	3169	x	x	10	10	Cy5	4.8	10
PD-L1	CD274	28-8	Abcam	ab205921	x		Not tested			N/A	
		EPR19759	Abcam	ab221612	x		Not tested			N/A	
		73-10	Abcam	ab228415	x		Not tested		N/A	N/A	1:100
		E1L3N	CST	13684	x		Not tested			N/A	
			CST	85164		CC*	Not tested		AF647	7.6	20
PDPK1	PDK1	E-3	Santa Cruz	sc-17765	x	x	No AE	10	Cy5-Mono-Maleimide	3.2	10
Peripherin	PRPH	Polyclonal	Millipore Sigma	AB1530	x		Not tested			N/A	
PGP9.5	UCHL1	13C4	Abcam	ab8189	x		No AE	10		N/A	
PGRN	GRN	Polyclonal	R&D Systems	AF2420	x	x	No AE	10	Cy3	3.5	10
									Cy5	2.4	10
Phospho-tyrosine	N/A	(P-Tyr-100)	CST	9411	x	x	No AE	10	Cy3	4.2	10
PI3 Kinase p110 alpha	PIK3CA	C73F8	CST	4249	x	x	1	10	Cy3	4.9	10
PKC alpha	PRKCA	Y124	Abcam	ab32376	x		No AE	10		N/A	
PKC beta 2	PRKCB	Y125	Abcam	ab32026	x		No AE	10		N/A	
PKM2	PKM	D78A4	CST	4053	x	x	Not tested		Cy3	4.5	5

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
PLAC8	PLAC8	Polyclonal	Millipore Sigma	HPA040465	x		Not tested			N/A	
PLK-1 (pThr210)	PLK1	2A3	Lifespan	LS-B1675	x		Not tested			N/A	
PMS2	PMS2	A16-4	BD Biosciences	556415	x		Not tested			N/A	
		EPR3947	Abcam	ab110638	x		Not tested			N/A	
PRAS40	AKT1S1	D23C7	CST	2691	x		No AE	10		N/A	
Progesterone Receptor	PGR	PgR 1294	Agilent	M3568	x		No AE	10	Cy3	4.6–6.0	10
Prostate Specific Antigen	KLK3	EP1588Y	Abcam	ab76113	x		Not tested			N/A	
PSD95	DLG4	K28/86	Millipore Sigma	MABN72	x		No AE	10	Zenon-AF647	3	10
PSP94	MSMB	YPSP-2	Abnova	MAB6367	x		Not tested			N/A	
PTEN	PTEN	D4.3	CST	9188	x	x	No AE	10	Cy5	3.3	5
PTGER2	PTGER2	Polyclonal	Novus Biologicals	NBP1-02379	x		Not tested			N/A	
PTP4A2	PTP4A2	334407	R&D Systems	MAB32191	x		5	10		N/A	
Rab 5	RAB5A	D-11	Santa Cruz	sc-46692	x		No AE	10		N/A	
Rb	RB1	4H1	CST	9309	x		1	10		N/A	
Rb (pSer608)	RB1	Polyclonal	CST	2181	x	x	No AE	10	Cy5	1.9	10
Rb (pSer780)	RB1	J146-35	BD Biosciences	558385	x		No AE	10		N/A	
RIP	RIPK1	C-12	Santa Cruz	sc-133102	x		Not tested			N/A	
RIP3	RIPK3	B-2	Santa Cruz	sc-374639 AF647		CC	Not tested		AF647	N/A	5
Robo2	ROBO2	4C6.1	Millipore Sigma	MABN122	x		Not tested		Zenon-AF647	3	10
RON	MST1R	EP1132Y	Abcam	ab52927	x		Not tested			N/A	
RRM1	RRM1	5H6F3	Proteintech	60073-2-Ig	x	x	No AE	10	Cy3	3.7	20
Rsk2/MAPKAP Kinase 1b	RPS6KA1	Y82	Abcam	ab32062	x		No AE	10		N/A	
RSK1 p90 (pThr359/Ser363)	RPS6KA1	E238	Abcam	ab32413	x		No AE	10		N/A	
S100A10	S100A10	4E7E10	CST	5529	x		Not tested			N/A	
S100A4	S100A4	EPR2761(2)	Abcam	ab124805	x	x	No AE	10	Cy7	3.2	10

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
S100	S100B (also S100A1 and S100A6)	Polyclonal	Agilent	GA504	x	x	No AE	10	Cy3	3.4	10
S6K1	RPS6KB1	E343	Abcam	ab32529	x	x	No AE	10	Cy5	2	20
S6 Ribosomal Protein	RPS6	D57.2.2E	CST	4858	x	x	No AE	10	Cy3	5.1–5.7	5
		5G10	CST	2217	x	x	2	10	Cy5	4.4	5
		C-8	Santa Cruz	sc-74459 AF647		CC	No AE	10	AF647	N/A	5
SDHA	SDHA	B-1	Santa Cruz	sc-166909 AF647		CC	Not tested		AF647	N/A	5
Serpin-B5	SERPINB5	Polyclonal	Millipore Sigma	HPA019132	x	x	No AE	10	Cy5	4.3–4.9	10
SFRP4	SFRP4	Polyclonal	Proteintech	15328-1-AP	x		Not tested			N/A	
SMA	ACTA2	1A4	Millipore Sigma	A5228	x	x	No AE	10	Cy2	3.8	5
									Cy3	3.8	5
									Cy7	3.6	5
				C6198		CC	No AE	10	Cy3	N/A	5
			R&D Systems	IC1420S		CC	No AE	10	AF750	N/A	1:100
			Abcam	ab184675		CC	No AE	10	AF488	N/A	1:100
			CST	56856		CC*	Not tested		AF488	6-8.3	10
			D4K9N	CST		CC	Not tested		AF488	6.4	12.5
Smac/Diablo	DIABLO	79-1-83	CST	2954	x	x	No AE	10	Cy5	1	10
Smad3	SMAD3	C67H9	CST	9523	x		Not tested			N/A	
Smad3	SMAD3	EP823Y	Abcam	ab52903	x	x	No AE	10	Cy3	4.9	20
Smad4	SMAD4	EP618Y	Abcam	ab40759	x		No AE	10		N/A	
Sox2	SOX2	D6D9	CST	5067		CC	No AE	10	AF647	4.6	2.5
Sox9	SOX9	EPR14335	Abcam	ab202516		CC	Not tested		AF555	N/A	1:100
				ab196184		CC	No AE		AF647	N/A	1:100
		D8G8H	CST	82630		CC*	Not tested		AF488	7.2	10
Spinophilin	PPP1R9B	E1E7R	CST	14136	x	x	Not tested		Cy3	4.2	5
SQSTM1	SQSTM1	D-3	Santa Cruz	sc-28359	x	x	No AE	10	Cy3	3.9	10
SR-2B	HTR2B	C-6	Santa Cruz	sc-376878 AF647		CC	Not tested		AF647	N/A	10
Src	SRC	Polyclonal	CST	2108	X	X	No AE	10	Cy3	4.3	20
Stat3	STAT3	124H6	CST	9139	X	X	No AE	10	Cy3	5.7	5
Stat3 (pTyr705)	STAT3	D3A7	CST	9145	x	x	No AE	10	Cy5	2.5	5

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
Stat5a	STAT5A	E289	Abcam	ab32043	x		Not tested			N/A	
Stat5 (pTyr694)	STAT5A	D47E7	CST	4322	x		No AE	10		N/A	
Stathmin	STMN1	Polyclonal	CST	3352	x	x	Not tested		Cy3	3.1	5
									Cy7	4.3	5
Survivin	BIRC5	71G4B7	CST	2808	x		1	10		N/A	
				2866			CC	Not tested	AF647	1.4	2.5
Synaptophysin	SYP	27G12	Leica Biosystems	NCL-L-SYNAP-299	x	x	No AE	10	Zenon-AF555	3	10
									Zenon-AF647	3	10
Synuclein a (pSer129)	SNCA	pSyn#64	Fujifilm Wako Chemicals	015-25191	x	x	Not tested		Cy5	2.6	5
Tau	MAPT	Tau46	CST	4019	X	x	No AE	10	Cy3B	3.5–4.3	5
Tau (Cleaved Asp421, Asp422)	MAPT	TauC3	Thermo Fisher	AHB0061	x	x	No AE	10	Cy7	2.6	5
Tau (3-repeat isoform RD3)	MAPT	8E6/C11	Millipore Sigma	05-803	x		No AE	10	Zenon-AF555	6	5
Tau (4-repeat isoform RD4)	MAPT	1E1/A6	Millipore Sigma	05-804	x		No AE	10	Zenon-AF555	6	5
Tau (pSer202/pThr205)	MAPT	AT8	Thermo Fisher	MN1020	x	x	No AE	10	Cy5	1.4–1.9	5
Tau (pThr231)	MAPT	AT180	Thermo Fisher	MN1040	x	x	No AE	10	Cy3	2.4	10
									Cy7	2.3	10
TDP-43	TARDBP	Polyclonal	Proteintech	10782-2-AP	x	x	No AE	10	Cy3	3.7	10
TDP-43 (pSer409/410)	TARDBP	1D3/TDP-43	BioLegend	829901	x		No AE	10		N/A	
		44144	Cosmo Bio	TIP-PTD-M01	x		Not tested			N/A	
Tenascin	ITGAM	alpha-K	Millipore Sigma	MAB1908	x		No AE	10		N/A	
TGFB1	TGFB1	TB21	Millipore	05-1423	x	x	No AE	10	Cy5	1.9	5
TRAP-1	TGFBRAP1	C-8	Santa Cruz	sc-13134	x		Not tested			N/A	
Thymidylate Synthase	TYMS	EPR4545	Abcam	ab108995	x		No AE	10		N/A	
TIGAR	TIGAR	Polyclonal	Abcam	ab37910	x		Not tested			N/A	
			R&D Systems	AF7629	x		Not tested			N/A	

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
TIM-3	HAVCR2	D5D5R	CST	78226		CC	Not tested		AF647	5.6	10
		Polyclonal	R&D Systems	AF2365	x		Not tested			N/A	
TIMP-4	TIMP4	153934	R&D Systems	MAB974	x	x	No	10	Cy3	3.6	10
TMPRSS2	TMPRSS2	EPR3861	Abcam	ab92323	x		Not tested			N/A	
TOP2a	TOP2A	Ki-S1	Millipore Sigma	MAB4197	x		No AE	10		N/A	
TRADD	TRADD	A-5	Santa Cruz	sc-46653	x		No AE	10		N/A	
Transferrin Receptor	TFRC	H68.4	Thermo Fisher	13-6800	x	x	No AE	10	Cy3	3.6	5
Tuberin (pThr1462)	TSC2	EPR1060(2)	Abcam	ab109403	x		Not tested			N/A	
Tubulin, Beta-III	TUBB3	TuJ-1	R&D Systems	MAB1195	x	x	Not tested		Cy3	4.4	10
									Cy7	1.8	10
Thyroid Transcription Factor	NKX2-1	8G7G3/1	Agilent	M3575	x	x	No AE	10	Cy3B	3.5	10
									Cy5	3.3	5
UBQLN2	UBQLN2	5F5	Novus Biologicals	H00029978-M03	x	x	No AE	10	Cy5	2.5	10
VACV	Vaccinia	8115	Santa Cruz	sc-58210	x		No AE	10		N/A	
VEGFA	VEGFA	EP1176Y	Abcam	ab52917	x	x	No AE	10	Cy3	4.4–5.1	10
VEGF-C	VEGFC	Polyclonal	R&D Systems	AF752	x		1	10		N/A	
VEGF Receptor 1	FLT1	Y103	Abcam	ab184784	x	x	No AE	10	Cy5	2	5
VEGF Receptor 2	KDR	55B11	CST	2479	x	x	No AE	10	Cy3	2.9	5
									Cy5	4.4	10
VEGF Receptor 3	FLT4	Polyclonal	Abcam	ab27278	x		No AE	10	Zenon-AF555	3	10
Vimentin	VIM	D21H3	CST	9854		CC	Not tested		AF488	5.3	20
				9855		CC	Not tested		AF555	N/A	1
				9856		CC	No AE	10	AF647	N/A	1
				5741	x	x	No AE	10	Cy7	2	5
				5741		CC*	Not tested		AF750	4.1-9.6	10
				46173		x	No AE	10	AF750	N/A	5
VMAT2	SLC18A2	Polyclonal	Millipore Sigma	AB1598P	x		Not tested		Zenon-AF555	3	10
Von Willibrand Factor	VWF	EPR12010	Abcam	ab179451	x	x	2	10	Cy3	3.9	5

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc/Dil
Vps35	VPS35	Polyclonal	Abcam	ab10099	x	x	No AE	10	Cy3	5.5	15
XBP1	XBP1	EPR4086	Abcam	ab109221	x		Not tested		Zenon-AF647	3	10
ZEB1	ZEB1	D80D3	CST	3396	x	x	Not tested		Cy5	1.8–2.8	10

Discontinued or Unavailable Cell DIVE™ Validated Antibodies

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Antibody availability is constantly changing, therefore the antibodies on this list are subject to change without notice.

The antibodies in this list were validated for use with Cell DIVE but have since been discontinued by the manufacturer or are otherwise unavailable commercially. If the antibody will be sourced from an alternate vendor, it should be evaluated prior to use in a Cell DIVE study.

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc.
ABCB1	ABCB1	JSB-1	US Biological	M2825-14B	x		No AE	10		N/A	
AIBC1	BCAS1	1B5	AbD Serotec	MCA4244Z	x	x	No AE	10	Cy5	2.6	10
ATR	ATR	1E9	AbD Serotec	MCA5513Z	x		Not tested			N/A	
Bcl-2	BCL2	E17	Abcam	ab190577		CC	Not tested		AF647	N/A	10
BDNF	BDNF	H-117	Santa Cruz	sc-20981	x		Not tested			N/A	
Bob1	POU2AF1	Polyclonal	Santa Cruz	sc-955	x		No AE	30		N/A	
C9orf72 (Poly-GP)	C9Orf72	Polyclonal	Millipore Sigma	ABN455	x	x	Not tested		Zenon-AF647	3	10
Cadherin (Pan)	N/A	Polyclonal	Thermo Fisher	RB9036P0	x	x	No AE	10	Cy3	5.1	5
									Cy5	2.4	5
									Cy7	1.4-2.4	5-10
Cadherin 1	CDH1	24E10	Cell Signaling	4295		x					3-5
CD11b	ITGAM	EPR1344	Abcam	ab167391	x		No AE	10		N/A	
CD200R	C200R1	polyclonal	Abcam	ab104701	x	x	No AE	10	Zenon-AF647	3	10
CD30	TNFRSF8	15B3	Leica	NCL-CD30-365	x		No AE	30		N/A	
CD39	ENTPD1	Polyclonal	Thermo Fisher	PA5-31089	x		Not tested		Cy5	1.5	10
CD83	CD83	1H4b	Abcam	ab49324	x		Not tested			N/A	
Cox2	PTGS2	Cox229	Thermo Fisher	187379	x	x	No AE	10	Cy5	2.3	20
Cytokeratin-6A	KRT6A	LHK6B	Lab Vision	MS-766-PABX	x	x	No AE	10	Cy5	4.2	10
Cytokeratin-19	KRT19	Polyclonal	Millipore Sigma	14-9898	x	x	No AE	10	Cy3	2.6	5
DBF4	DBF4	polyclonal	Abnova	PAB2864	x	x	1	10	Cy5	2.6	10

DPYD	DPYD	7D4	Millipore Sigma	WH0001806M1	x		1	10	N/A		
DUSP5	DUSP5	4C8	AbD Serotec	MCA5327Z	x		1	10	N/A		
FOXO3a	FOXO3	EP1949Y	Abcam	ab53287	x	x	No AE	10	Zenon-AF647	4	10
FTH1	FTH1	Polyclonal	Abcam	ab81444	x		No AE	10	Zenon-AF555	3	24
FUS	FUS	Polyclonal	Abcam	ab70381	x	x	No AE	10	Cy3	3.6	5
GADD45B	GADD45B	Polyclonal	Millipore Sigma	AV48346	x		Not tested		N/A		
Galectin-3	LGALS3	9C1	Abcam	ab7278	x		Not tested		N/A		
Gli-1	GLI1	H-300	Santa Cruz	sc-20687	x	x	1	10	Cy5	4	20
Her3	ERBB3	polyclonal	Spring Bioscience	E17934	x	x	No AE	10	Cy5	2.5	10
Histone H3 (pSer10)	H3-3A	Polyclonal	Millipore	09-797	x	x	No AE	10	Cy2	4.6	5
									Cy5	2.6	5
HSP27_pS15	HSPB1	polyclonal	Lifespan	LS-C100719	x	x	No AE	10	Cy5	2.4	10
IGF1R	IGF1R	2H9	Lifespan	LS-C82136	x	x	10	10	Cy3	3.4	10
iNOS	ISYNA1	4E5	Abcam	ab129372	x	x	Not tested		Cy5	2.2	10
LAG3	LAG3	17B4	Lifespan	LS-C18692	x	x	No AE	10	Cy3	3.7	5
MUC1	MUC1	Ma552	Leica	MUC-1-CORE	x	x	No AE	10	Cy3	3.2	1
MVP	MVP	MVP-37	Millipore	MAB4141		x			Cy5	1.7	15
Neuregulin-3	NRG3	polyclonal	Lifespan	LS-C100470	x		Not tested		N/A		
Osteonectin	SPARC	1B2	AbD Serotec / Morf	MCA5257Z	x		Not tested		N/A		
PDK1_pS241	PDK1	EPR336(2)	Abcam- Epitomics	ab109460	x	x	No AE	10	Cy5	3.5	10
			Genscript	A00207	x	x	No AE	10	Cy3	4.1	10
PRAS40 (pThr246)	AKT1S1	Polyclonal	Millipore Sigma	07-1282	x		Not tested		N/A		
PSMA	FOLH1	YPSMA-1	Abcam	ab19071	x		Not tested		N/A		
S100-A7	S100A7	9A501	US Biological	P9176-80B	x		Not tested		N/A		
SKP2	SKP2	polyclonal	Abcam	ab40130	x		No AE	10	N/A		
SOCS2	SOCS2	polyclonal	Santa Cruz	sc-9022	x		Not tested		N/A		
SorLA	SORL1	polyclonal	Abcam	ab16642	x	x	No AE	10	Cy3	4.3	10
Tie-2	TEK	Polyclonal	Santa Cruz	sc-9026	x		No AE	10	N/A		
TKTL1	TKTL1	1C10	AbD Serotec	MCA5455Z	x	x	1	10	Cy3	6.3	10
TRKB	NTRK2	Polyclonal	Santa Cruz	sc-8316	x	x	No AE	10	Cy3	3.3–4.2	10
Ubiquitin	RPS27A	Ubi1	Millipore Sigma	MAB1510	x		No AE	10	N/A		

Cell DIVE™ Validated Mouse Antibody List

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Antibody availability is constantly changing, therefore the antibodies on this list are subject to change without notice.

Antibodies in this list were specifically tested with mouse tissue using the Cell DIVE process. This list is not all-inclusive. Antibodies in the human list may also recognize mouse proteins. For information about species cross-reactivity refer to the vendor datasheet.

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc.
Albumin	ALB	HSA-11	Millipore Sigma	A6684		x	10	10	Cy5	4.1	5
ALDH1L1	ALDH1L1	N103/39	Antibodies Inc.	75-140		x	Not tested		Cy3	5.6-5.9	10
APOE	APOE	Polyclonal	Millipore Sigma	AB947		x	10	10	Cy5	2.2	5
AQP1	AQP1	Polyclonal	Proteintech	20333-1-AP		x	No AE	10	Cy5	2.1	10
Beta-Actin	ACTB1	13E5	Cell Signaling	4970		x	10	10	Cy5	4.9	10
Beta-Amyloid 1-16	APP	6E10	BioLegend	803001		x	No AE	10	Cy3	3.9	5-10
									Cy5	1.7	10
CD3e	CD3E	SP7	Invitrogen	MA1-90582	x		Not tested			N/A	
CD4	CD4	Polyclonal	Synaptic Systems	HS-360-004	x		Not tested			N/A	
CD8	CD8A	Polyclonal	Synaptic Systems	HS-361-003	x		Not tested		Zenon-AF647	3	10
CD20	MS4A1	EP459Y	Abcam	ab198943		CC	Not tested		AF647	N/A	10
CD45	PTPRC	IBL-5/25	Millipore Sigma	05-1416		x	Not tested		Cy3	2.9-4.6	5
CD146	MCAM	ME-9F1	Biolegend	134702		CC	Not tested		AF647	N/A	10
CD163	CD163	EPR19518	Abcam	ab213612		x	Not tested		Cy3	3.25-4.4	10
cFos	FOS	E-8	Santa Cruz	sc-166940	x		Not tested			N/A	
Claudin-5	CLDN5	4C3C2	Thermo Fisher	35-2500	x		Not tested			N/A	
CNPase	CNP	D83E10	Cell Signaling	5664S		x	No AE	10	Cy5	4	5
Collagen IV	COL4A1	Polyclonal	Abcam	ab6586	x		Not tested			N/A	
DCX	DCX	Polyclonal	Antibodies Online	ABIN625829	x		Not tested			N/A	
GFAP	GFAP	G-A-5	Millipore Sigma	C9205		CC	Not tested		Cy3	N/A	1

Antibody name	Protein	Clone	Vendor	Catalog number	Validated as		Antigen effects		Conjugation		
					P/S	DC	Present	Rounds	Dye	D:P	Conc.
HuD	ELAVL4	E-1	Santa Cruz	sc-28299		x	Not tested		AF647	0.9–1.9	5
Iba1	AIF1	Polyclonal	Wako Chemicals USA	019-19741		x	No AE	10	Cy5	2.2	5
Ki-67	MKI67	SP6	Zeta	Z2031		x	No AE	10	Cy5	2.4	10
MAP2	MAP2	HM-2	Millipore Sigma	M4403		x	No AE	10	Cy3	3.4	10
									Cy5	2.3	5
NeuN	RBFOX3	A60	Millipore Sigma	MAB377		x	No AE	10	AF647	3.2	2.5
pTAU	MAPT	AT8	Thermo Fisher	MN1020		x	No AE	10	Cy5	1.4	5
Synaptophysin	SYP	27G12	Leica Biosystems	NCL-L-SYNAP-299	x	x	No AE	10	Zenon-AF555	3	10
									Zenon-AF647	3	10
VEGFR1	FLT1	Y103	Abcam	ab184784		x	No AE	10	Cy5	2	5
VEGFR2	KDR	55B11	Cell Signaling	2479		x	No AE	10	Cy3	2.8–5.5	10
									Cy5	4.4	10
VEGFR3	FLT4	Polyclonal	Abcam	ab27278	x		No AE	10	Zenon-AF555	3	10
Vimentin	VIM	D21H3	Cell Signaling	9856		CC	No AE	10	AF647	N/A	1

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