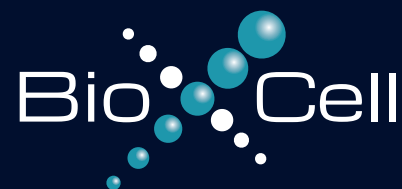




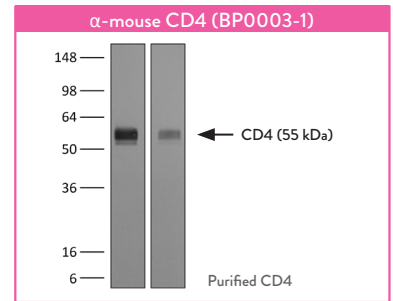
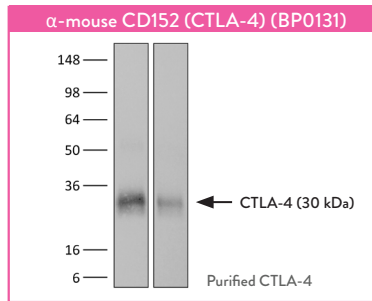
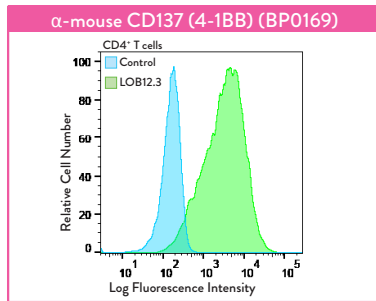
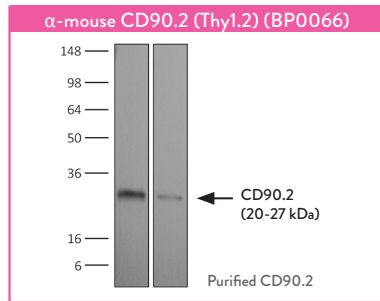
CD Markers

Antibodies Targeting CD Markers

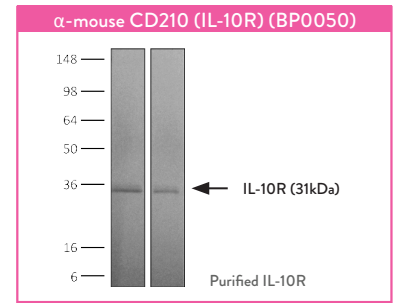
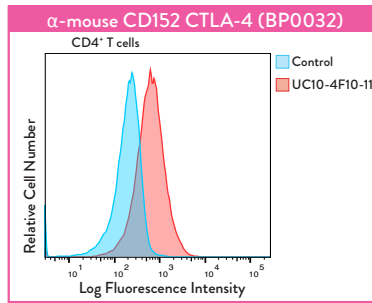
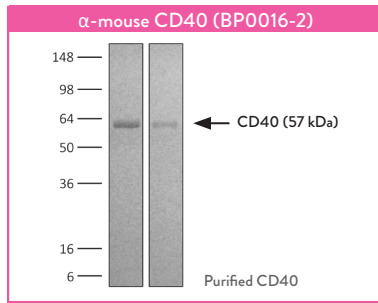
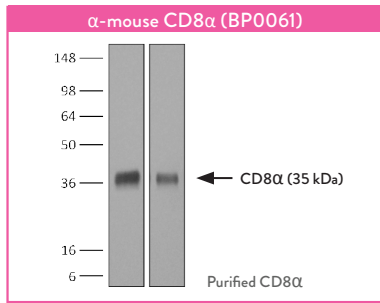
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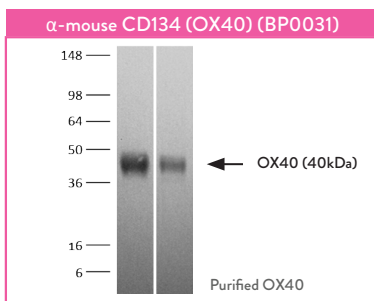
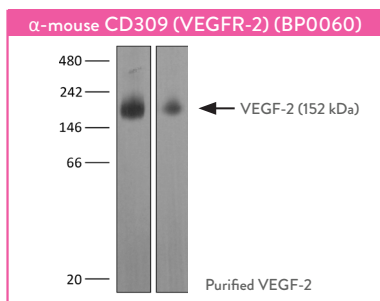
CD Marker Antibodies



Antigen	Reactivity	Application	Clone	Catalog Number	Isotype Control
CD1a	human	<i>in vitro</i> CD1a blockade, FC	OKT-6	BE0211	BE0083
CD1d (CD1.1)	mouse	<i>in vivo</i> CD1d neutralization	19G11	BE0000	BE0088
CD1d (CD1.1)	mouse	iNKT cell neutralization, <i>in vivo</i> CD1d blockade, FC	20H2 (HB323)	BE0179	BE0088
CD3	human	<i>in vitro</i> T cell stimulation/activation, <i>in vivo</i> T cell depletion in humanized mice, ex vivo T cell inhibition for xenographs, FC	OKT-3	BE0001-2	BE0085
CD3	mouse	<i>in vitro</i> T cell stimulation/activation	17A2	BE0002	BE0090
CD3	human	<i>in vivo</i> T cell depletion in humanized mice, ex vivo T cell inhibition for xenographs, FC	UCHT1 (Leu-4) (T3)	BE0231	BE0083
CD3ε	mouse	<i>in vivo</i> T cell depletion, <i>in vitro</i> T cell stimulation/activation, IF, FC	145-2C11	BP0001-1	BP0091
CD3ε	mouse	<i>in vitro</i> T cell negative selection, <i>in vitro</i> T cell stimulation/activation, IF	KT3	BE0261	BE0089
CD3ε F(ab') ₂ fragment	mouse	<i>in vivo</i> T cell depletion	145-2C11 F(ab') ₂ Fragments	BE0001-1FAB	BE0091-FAB
CD4	mouse	<i>in vivo</i> CD4 ⁺ T cell depletion, FC	GK1.5	BP0003-1	BP0090
CD4	human	<i>in vitro</i> T cell stimulation/activation, <i>in vivo</i> CD4 ⁺ T cell depletion in humanized mice, FC, IP	OKT-4	BE0003-2	BE0086
CD4	mouse	<i>in vivo</i> blockade of CD4 ⁺ T-cell responses, WB	YTS 177	BE0003-3	BE0089
CD4	mouse	<i>in vivo</i> CD4 ⁺ T cell depletion	YTS 191	BE0119	BE0090
CD4	human	<i>in vitro</i> CD4 blockade, <i>in vitro</i> blocking of CD4 ⁺ T cell activation, IF, IHC-F, FC	RPA-T4	BE0288	BE0083
CD4	rat	<i>in vivo</i> CD4 ⁺ T cell depletion, FC	OX-38	BE0308	BE0085
CD8 (Lyt 2.1)	mouse	<i>in vivo</i> CD8 ⁺ T cell depletion, FC	116-13.1 (HB129)	BE0118	BE0085
CD8α	mouse	<i>in vivo</i> CD8 ⁺ T cell depletion, IF, FC	53-6.7	BP0004-1	BP0089
CD8α	human	<i>in vivo</i> CD8 ⁺ T cell depletion in humanized mice	OKT-8	BE0004-2	BE0085
CD8α	mouse	<i>in vivo</i> CD8 ⁺ T cell depletion	2.43	BP0061	BP0090
CD8α	mouse	<i>in vivo</i> CD8 ⁺ T cell depletion	YTS169.4	BP0117	BP0090
CD8β (Lyt 3.2)	mouse	<i>in vivo</i> CD8 ⁺ T cell depletion, <i>in vitro</i> CD8 blockade, IF	53-5.8	BE0223	BE0088
CD11a (LFA-1α)	human	<i>in vitro</i> LFA-1 neutralization	TS-1/22.1.13	BE0005	BE0083
CD11a (LFA-1α)	mouse	<i>in vivo</i> LFA-1 neutralization	FD441.8	BE0005-1	BE0090
CD11a (LFA-1α)	mouse	<i>in vivo</i> LFA-1 neutralization, FC	M17/4	BE0006	BE0089
CD11a (LFA-1α)	human	Functional assays, FC	R7-1	BE0192	BE0083
CD11b	mouse/human	<i>in vivo</i> CD11b neutralization, ILC2 cell purification, FC	M1/70	BE0007	BE0090
CD16/CD32	mouse	<i>in vivo</i> and <i>in vitro</i> Fc receptor blocking	2.4G2	BE0307	BE0090
CD18	mouse	<i>in vivo</i> LFA-1 neutralization	M18/2	BE0009	BE0089
CD19	mouse	<i>in vivo</i> B cell depletion, <i>in vivo</i> CD19 neutralization, <i>in vitro</i> B cell negative selection, FC	1D3	BE0150	BE0089
CD19	human	FC, Functional assays, IF, Chimeric antigen receptor construction	4G7	BE0281	BE0083
CD20	mouse	<i>in vivo</i> B cell depletion, WB	MB20-11	BP0356	BE0366
CD20	human/monkey	<i>in vivo</i> B cell depletion in hCD20 Tg mice, IHC-F, IP, FC	2H7	BE0276	BE0086
CD20	mouse	FC, WB	AISB12	BE0302	BE0089
CD22	mouse	<i>in vivo</i> B cell depletion in combination with anti-CD19 (clone 1D3) and anti-rat K Light Chain (clone MAR 18.5), FC, IP	Cy34.1	BE0011	BE0083
CD24	mouse	<i>in vivo</i> administration, IHC-F, IHC-P, IF, FC	M1/69	BE0360	BE0090
CD25 (IL-2Rα)	mouse	<i>in vivo</i> regulatory T cell depletion, FC	PC-61.5.3	BP0012	BP0088
CD25 (IL-2Rα)	human	IP, IF	7G7B6	BE0014	BE0085
CD27	mouse	<i>in vivo</i> CD27 stimulation, <i>in vitro</i> CD27 stimulation, IP, FC	RM27-3E5	BE0348	BE0089
CD28	mouse	<i>in vivo</i> CD28 blockade, <i>in vitro</i> T cell stimulation/activation	37.51	BE0015-1	BE0087
CD28	mouse	<i>in vitro</i> T cell stimulation/activation	PV-1	BE0015-5	BE0091
CD28	rat	<i>in vitro</i> T cell stimulation/activation, FC	JJ319	BE0040	BE0083
CD28	human	<i>in vitro</i> T cell stimulation/activation	9.3	BE0248	BE0085
CD28	human/monkey	<i>in vitro</i> T cell stimulation/activation, FC, IHC-F, IP	CD28.2	BE0291	BE0083
CD28	mouse	<i>in vivo</i> and <i>in vitro</i> T cell stimulation/activation	D665	BE0328	BE0083
CD29	mouse	IF, FC	KM16	BE0232	BE0089
CD32 (FcγRIIA)	human	<i>in vivo</i> FcγRIIA blockade in humanized mice, <i>in vitro</i> FcγRIIA blockade, ELISA, FC	IV.3	BE0224	BE0086
CD38	mouse	<i>in vivo</i> and <i>in vitro</i> CD38 stimulation, <i>in vitro</i> B cell activation, IF	NIMR5	BE0317	BE0089
CD40	mouse	<i>in vivo</i> CD40 activation, <i>in vitro</i> B cell stimulation/activation	FGK4.5/FGK45	BP0016-2	BP0089
CD40	human	<i>in vitro</i> B cell stimulation, <i>in vitro</i> CD40 stimulation, <i>in vitro</i> macrophage stimulation, Functional assays, FC	G28.5	BE0189	BE0083
CD154 (CD40L)	mouse	<i>in vivo</i> and <i>in vitro</i> blocking of CD40/CD40L signaling	MR-1	BP0017-1	BP0091
CD154 (CD40L)	human/monkey	<i>in vitro</i> blocking of CD40/CD40L signaling, <i>in vivo</i> blocking of CD40/CD40L signaling, IP, FC	5C8	BE0292	BE0085



Antigen	Reactivity	Application	Clone	Catalog Number	Isotype Control
CD44	mouse/human	<i>in vivo</i> CD44 neutralization	IM7	BE0039	BE0090
CD44	human	<i>in vivo</i> CD44 blockade in xenografts, <i>in vitro</i> CD44 blockade, WB, IF	Hermes-1	BE0262	BE0089
CD45RB	mouse	<i>in vivo</i> anti-CD45RB-mediated tolerance induction, <i>in vivo</i> pre-mNK cell depletion	MB23G2 (HB220)	BE0019	BE0089
CD45.2	mouse	<i>in vivo</i> and <i>in vitro</i> CD45.2 blockade, FC, IHC-F,	104.2	BE0300	BE0085
CD47	human	<i>in vivo</i> CD47 neutralization in human tumor xenograft models or humanized mice, <i>in vitro</i> CD47 neutralization, FC	B6H12	BE0019-1	BE0083
CD47	hu/mo/rt	<i>in vivo</i> and <i>in vitro</i> CD47 blockade, IF	MIAP410	BP0283	BP0083
CD47 (IAP)	mouse	<i>in vivo</i> CD47 blockade, <i>in vitro</i> CD47 blockade, IF	MIAP301	BE0270	BE0089
CD48	mouse	<i>in vivo</i> and <i>in vitro</i> CD48 blockade	HM48-1	BE0147	BE0091
CD49d (VLA-4)	mouse/human	<i>in vivo</i> and <i>in vitro</i> VLA-4 neutralization, FC	PS/2	BE0071	BE0090
CD54 (ICAM-1)	mouse	<i>In vivo</i> ICAM-1 neutralization	YN1/1.7.4	BE0020-1	BE0090
CD54 (ICAM-1)	human	<i>in vitro</i> T cell stimulation/activation, IF	R6-5-D6	BE0020-2	BE0085
CD62E (E-Selectin)	mouse	<i>in vivo</i> and <i>in vitro</i> E-selectin blockade, IHC-F	9A9	BE0294	BE0090
CD62L (L-Selectin)	mouse	<i>In vivo</i> CD62L neutralization	Mel-14	BE0021	BE0089
CD69	mouse	<i>in vivo</i> down-regulation of CD69 expression, Functional assays	CD69.2.2	BE0330	BE0083
CD70	mouse	<i>in vivo</i> and <i>in vitro</i> CD70 blockade, FC	FR70	BE0022	BE0090
CD71	human	FC, IHC-F	OKT9	BE0023	BE0083
CD71 (TfR)	human	WB, IP, FC	5E9C11	BE0343	BE0083
CD71 (TfR1)	mouse	<i>in vivo</i> depletion of CD71+ cells	R17 217.1.3/T1B-219	BE0175	BE0089
CD71 (TfR1)	mouse	<i>in vivo</i> depletion of CD71+ cells, IF, IHC-F, WB	8D3	BE0329	BE0089
CD71 (TfR1)	rat/mouse	Targeted drug delivery to the brain, IHC-F, FC	OX-26	BE0331	BE0085
CD73	mouse	<i>in vivo</i> CD73 blockade	TY/23	BE0209	BE0089
CD80 (B7-1)	mouse	<i>in vivo</i> B7-1 blockade, affinity chromatography	1G10	BE0134	BE0089
CD80 (B7-1)	mouse	<i>In vivo</i> CD80 blockade, FC	16-10A1	BE0024	BE0091
CD86 (B7-2)	mouse	<i>In vivo</i> CD86 blockade, FC	GL-1	BE0025	BE0089
CD90 (Thy1)	mouse	<i>in vitro</i> T cell depletion	M5/49.4.1	BE0076	BE0089
CD90.1 (Thy1.1)	mouse	<i>in vivo</i> T cell depletion	19E12	BE0214	BE0085
CD90.2 (Thy1.2)	mouse	<i>in vivo</i> ILC depletion, <i>in vivo</i> T cell depletion	30H12	BP0066	BP0090
CD91 (LRP1)	hu/mo/rt	WB, IF, IP	11H4	BE0333	BE0083
CD96	mouse	<i>in vivo</i> and <i>in vitro</i> CD96 blocking, FC	3.3	BE0337	BE0088
CD103	mouse	<i>In vivo</i> CD103 neutralization, IF, FC	M290	BE0026	BE0089
CD106 (VCAM-1)	mouse	<i>in vivo</i> VCAM-1 neutralization, IF	M/K-2.7	BE0027	BE0088
CD115 (CSF1R)	mouse	<i>in vivo</i> macrophage depletion, <i>in vivo</i> monocyte depletion, <i>in vitro</i> CSF-R1 neutralization, FC	AFS98	BP0213	BP0089
CD115 (CSF1R)	human	<i>in vitro</i> CSF1R neutralization, IHC-P, FC, Functional assays	2-4A5-4	BE0347	BE0088
CD117 (c-Kit)	mouse	FC, IF, IHC	2B8	BE0280	BE0090
CD119 (IFNγR)	mouse	<i>in vivo</i> IFNγR neutralization	GR-20	BE0029	BE0089
CD119 (IFNγRα)	mouse	WB, IP, FC	2E2	BE0287	BE0091
CD120b (TNFR2)	mouse	<i>in vivo</i> TNFR2 blockade, <i>in vitro</i> TNFR2 blockade	TR75-54.7	BE0247	BE0091
CD121a (IL-1 R)	mouse	<i>in vitro</i> IL-1 R blockade	JAMA-147	BE0256	BE0091
CD122 (IL-2Rβ)	mouse	<i>in vitro</i> NK cell negative selection, IP, FC	5H4	BE0272	BE0089
CD122 (IL-2Rβ)	mouse	<i>in vivo</i> NK cell depletion, <i>in vitro</i> IL-2R blockade, Functional assays, FC	TM-Beta 1	BE0298	BE0090
CD127 (IL-7Rα)	mouse	<i>in vivo</i> blocking of IL-7Rα signaling, FC	A7R34	BE0065	BE0089
CD132 (common γ chain)	mouse	<i>in vivo</i> γc blockade, Functional assays, IP, FC	3E12	BE0271	BE0090
CD134 (OX40)	mouse	<i>in vivo</i> and <i>in vitro</i> OX40 activation	OX-86	BP0031	BP0088
CD134L (OX40L)	mouse	<i>in vivo</i> blocking of OX40/OX40L signaling, <i>in vitro</i> OX40L neutralization	RM134L	BE0033-1	BE0090
CD137 (4-1BB)	mouse	<i>in vivo</i> activation of 4-1BB	LOB12.3	BP0169	BP0089
CD137 (4-1BB)	mouse	<i>in vivo</i> and <i>in vitro</i> 4-1BB stimulation	3H3	BP0239	BP0089
CD137 (4-1BB)	mouse	<i>in vitro</i> 4-1BB blockade, FC	17B5	BE0296	BE0087
CD137L (4-1BBL)	mouse	<i>in vivo</i> 4-1BBL blockade	TKS-1	BE0110	BE0089
CD152 (CTLA-4)	mouse	<i>in vivo</i> and <i>in vitro</i> CTLA-4 neutralization, FC	UC10-4F10-11	BP0032	BP0091
CD152 (CTLA-4)	mouse	<i>in vivo</i> and <i>in vitro</i> CTLA-4 neutralization, FC	9H10	BP0131	BP0087
CD152 (CTLA-4)	mouse	<i>in vivo</i> CTLA-4 neutralization	9D9	BP0164	BP0086



InVivoMab vs. InVivoPlus		
purity level	InVivoMab > 95%	InVivoPlus > 95%
protein aggregates validated at ≤ 5%		✓
azide and carrier protein free	✓	✓
endotoxin concentration	< 2EU/mg	< 1EU/mg
validated by immunoblot, FC, or ELISA		✓
tested for murine pathogens		✓
available in bulk quantities	✓	✓

Antigen	Reactivity	Application	Clone	Catalog Number	Isotype Control
CD152 (CTLA-4)	human	<i>in vitro</i> CTLA-4 neutralization, FC	BN13	BE0190	BE0085
CD159 (NKG2A/C/E)	mouse	<i>in vivo</i> and <i>in vitro</i> NKG2A blockade, IHC-F, FC	20D5	BE0321	BE0089
CD161 (NK1.1)	mouse	<i>in vivo</i> NK cell depletion, FC	PK136	BP0036	BP0085
CD162 (PSGL-1)	mouse	<i>in vivo</i> PSGL-1 blockade, IHC-F	4RA10	BE0186	BE0088
CD172a (SIRPα)	mouse	<i>in vivo</i> and <i>in vitro</i> SIRPα blocking, WB, IP, FC	P84	BE0322	BE0088
CD178 (FasL)	mouse	<i>in vivo</i> and <i>in vitro</i> FasL blockade, Functional assay, IHC-P, FC	MFL3	BE0319	BE0091
CD183 (CXCR3)	mouse	<i>in vivo</i> CXCR3 neutralization, FC	CXCR3-173	BE0249	BE0091
CD193 (CCR3)	mouse	<i>in vivo</i> eosinophil depletion	6S2-19-4	BE0316	BE0090
CD200 (OX2)	mouse	<i>in vivo</i> and <i>in vitro</i> CD200 blockade, IHC-F, IF, FC	OX-90	BE0299	BE0089
CD209b (SIGN-R1)	mouse	<i>in vivo</i> SIGN-R1 blockade, IHC-F, WB, FC	22D1	BE0220	BE0091
CD210 (IL-10R)	mouse	<i>in vivo</i> blocking of IL-10/IL-10R signaling, <i>in vitro</i> blocking of IL-10R signaling, FC	1B1.3A	BP0050	BP0088
CD220 (Insulin Receptor)	human	WB	IR 83-22	BE0338	BE0083
CD223 (LAG-3)	mouse	<i>in vivo</i> and <i>in vitro</i> LAG-3 neutralization, FC	C9B7W	BP0174	BP0088
CD227 (MUC1)	human	<i>in vivo</i> administration in mouse xenograft models, <i>in vitro</i> cell cytotoxicity assay, WB, IHC-P, IF,	C595 (NCRC48)	BE0336	BE0093
CD243 (MDR-1)	human/monkey	<i>in vivo</i> MDR-1 blocking/depletion in xenogeneic murine tumor models, <i>in vitro</i> MDR-1 blocking, IHC-P	UIC2	BE0340	BE0085
CD254 (RANKL)	mouse	<i>in vivo</i> RANKL blockade	IK22/5	BE0191	BE0089
CD262 (DR5)	mouse	<i>in vivo</i> and <i>in vitro</i> induction TRAIL-mediated apoptosis	MD5-1	BE0161	BE0091
CD272 (BTLA)	mouse	<i>in vivo</i> BTLA stimulation, <i>in vivo</i> BTLA blockade	6A6	BE0132	BE0091
CD272 (BTLA)	mouse	<i>in vivo</i> and <i>in vitro</i> stimulation of BTLA, FC	PK18.6	BE0153	BE0088
CD272 (BTLA)	mouse	<i>in vivo</i> BTLA blockade, <i>in vitro</i> T cell stimulation/activation, FC	PJ196	BE0196	BE0083
CD272 (BTLA)	mouse	<i>in vivo</i> BTLA+ B cell and CD4 T cell depletion, FC	6F7	BE0304	BE0083
CD273 (PD-L2)	mouse	<i>in vivo</i> and <i>in vitro</i> PD-L2 blockade, IHC-F, FC	TY25	BE0112	BE0089
CD274 (PD-L1)	mouse	<i>in vivo</i> PD-L1 blockade, IF, IHC-F, FC	10F.9G2	BP0101	BP0090
CD275 (ICOSL)	mouse	<i>in vivo</i> ICOSL neutralization	HK5.3	BE0028	BE0089
CD276 (B7-H3)	mouse	<i>in vivo</i> B7-H3 blockade, FC	MJ18	BE0124	BE0088
CD278 (ICOS)	mouse	<i>in vivo</i> blocking of ICOS/ICOSL signaling, FC	7E.17G9	BE0059	BE0090
CD279 (PD-1)	mouse	<i>in vivo</i> blocking of PD-1/PD-L signaling, <i>in vitro</i> PD-1 neutralization	J43	BP0033-2	BP0091
CD279 (PD-1)	mouse	<i>in vivo</i> blocking of PD-1/PD-L signaling	RMP1-14	BP0146	BP0089
CD279 (PD-1)	human	<i>in vitro</i> PD-1 neutralization, <i>in vivo</i> PD-1 blockade in humanized mice	J116	BE0188	BE0083
CD279 (PD-1)	human	<i>in vivo</i> PD-1 blockade in humanized mice, FC	J110	BE0193	BE0083
CD279 (PD-1)	mouse	<i>in vivo</i> blocking of PD-1/PD-L signaling, <i>in vitro</i> PD-1 neutralization, IHC-F, FC, WB	29F.1A12	BP0273	BP0089
CD314 (NKG2D)	mouse	<i>in vivo</i> and <i>in vitro</i> NKG2D blockade, FC	CX5	BE0334	BE0088
CD317 (BST2, PDCA-1)	mouse	<i>in vivo</i> pDC depletion, IF, FC	927	BE0311	BE0090
CD324 (E-Cadherin)	mouse	<i>in vivo</i> E-Cadherin neutralization, <i>in vitro</i> E-Cadherin neutralization, IF, IP, WB	DECMA-1	BE0352	BE0088
CD326 (EpCAM)	mouse	WB, IF, IHC-F, FC	G8.8	BE0346	BE0089
CD340 HER2 (neu)	human/rat	<i>in vivo</i> and <i>in vitro</i> HER2/neu inhibition, IP, IF, FC	7.16.4	BE0277	BE0085
CD365 (TIM-1)	mouse	<i>in vivo</i> TIM-1 neutralization	RMT1-10	BE0113	BE0089
CD366 (TIM-3)	mouse	<i>in vivo</i> TIM-3 neutralization, <i>in vitro</i> TIM-3 blocking, FC	RMT3-23	BP0115	BP0089
CD366 (TIM-3)	mouse	<i>in vivo</i> TIM-3 neutralization, <i>in vitro</i> TIM-3 blocking, FC	B8.2C12	BE0275	BE0088
CD370 (CLEC9A)	mouse	<i>in vivo</i> Ag targeting to CLEC9A+ DCs, WB, ELISA, IP, IF, FC	7H11	BE0305	BP0088

IF Immunofluorescence | IHC-F Immunohistochemistry (frozen) | IHC-P Immunohistochemistry (paraffin) | WB Western blot | IP Immunoprecipitation | FC Flow cytometry (requires fluochrome conjugation)

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