



Protein Reagents
Top-notch Quality

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Z-MAB[®], Next Generation Control Antibodies

Z-MAB[®] – A must-have control reagent for confirming the specificity of an antibody of interest.

More information about Z-MAB[®] on <https://abbiosciences.com/collections/z-mab>

Species	Isotype	Fc Domain	Product Name	Product Code	Amount	Price
Human	IgG1	Wildtype	Z-MAB – Human IgG1	PZHU005	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Human	IgG1	Aglycosylated	Z-MAB – Human IgG1 with aglyco-Fc	PZHU006	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Human	IgG4	Wildtype	Z-MAB – Human IgG4	PZHU003	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Human	IgG4	Aglycosylated	Z-MAB – Human IgG4 with aglyco-Fc	PZHU004	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Mouse	IgG1	Wildtype	Z-MAB – Mouse IgG1	PZMU003	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Mouse	IgG1	Aglycosylated	Z-MAB – Mouse IgG1 with aglyco-Fc	PZMU004	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Mouse	IgG2a	Wildtype	Z-MAB – Mouse IgG2a	PZMU001	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Mouse	IgG2a	Aglycosylated	Z-MAB – Mouse IgG2a with aglyco-Fc	PZMU002	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Mouse	IgG2b	Wildtype	Z-MAB – Mouse IgG2b	PZMU005	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Mouse	IgG2b	Aglycosylated	Z-MAB – Mouse IgG2b with aglyco-Fc	PZMU006	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Rat	IgG1	Wildtype	Z-MAB – Rat IgG1	PZRA001	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Rat	IgG1	Aglycosylated	Z-MAB – Rat IgG1 with aglyco-Fc	PZRA002	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Rat	IgG2a	Wildtype	Z-MAB – Rat IgG2a	PZRA003	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Rat	IgG2a	Aglycosylated	Z-MAB – Rat IgG2a with aglyco-Fc	PZRA004	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Rat	IgG2b	Wildtype	Z-MAB – Rat IgG2b	PZRA005	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750
Rat	IgG2b	Aglycosylated	Z-MAB – Rat IgG2b with aglyco-Fc	PZRA006	0.2 mg	\$300
					1 mg	\$650
					5 mg	\$1,750

Checkpoint Proteins

Checkpoint Proteins are made of at least 7 ligands and 5 receptors. The redundancy in the interaction specificity between ligands and receptors are reminiscent of the TNF superfamily. Collectively this family of molecules are called co-stimulatory proteins, yet they deliver both positive and negative signals. Even though the “ligand” proteins have relatively short cytoplasmic tails, it appears they are also capable of delivering the “inward” signaling upon interaction with their respective receptors. Checkpoint proteins play critical roles in failed antitumor immunity and therefore are excellent targets for developing oncological therapeutics.

More information on <https://abbiosciences.com/collections/b7-cd28-superfamily>

Protein	Species	Fusion Tag	Product Name	Product Code	Amount	Price
B7-H2	Human	Mouse IgG2a Fc	B7-H2 (Fc-Fusion)	P7096F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
B7-H2	Mouse	Mouse IgG1 Fc	Mouse B7-H2 (Fc-Fusion)	M7096E	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
B7-H2	Mouse	Mouse IgG2a Fc	Mouse B7-H2 (Fc-Fusion)	M7096F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
B7-H3	Human	Mouse IgG2a Fc	B7-H3 (Fc-Fusion)	P7105F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
CD28	Human	Mouse IgG2a Fc	CD28 (Fc-Fusion)	P7090F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
CD86	Human	Mouse IgG2a Fc	B7-2 (Fc-Fusion)	P7093F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
CTLA-4	Human	Mouse IgG2a Fc	CTLA-4 (Fc-Fusion)	P7095F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
CTLA-4	Human	Mouse IgG2a aglyco-Fc	CTLA-4 (ΔG-Fc-Fusion)	P7095G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
PD-1	Human	Mouse IgG2a Fc	PD-1 (Fc-Fusion)	P7099F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
PD-1	Human	Mouse IgG2a aglyco-Fc	PD-1 (ΔG-Fc-Fusion)	P7099G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
PD-L1	Human	Mouse IgG2a Fc	PD-L1 (Fc-Fusion)	P7101F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
PD-L1	Human	Mouse IgG2a aglyco-Fc	PD-L1 (ΔG-Fc-Fusion)	P7101G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
PD-L2	Human	Mouse IgG2a Fc	PD-L2 (Fc-Fusion)	P7103F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
PD-L2	Human	Mouse IgG2a aglyco-Fc	PD-L2 (ΔG-Fc-Fusion)	P7103G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450

TNF Superfamily Proteins (Hexa-Ligands)

Hexa-Ligands are a selected collection of recombinant TNF superfamily proteins engineered and produced by AB Biosciences. The TNF superfamily (TNFSF) is made of 19 type II transmembrane proteins each is characterized by a conservative TNF homologous region at its extracellular domain which is also responsible for the characteristic trimeric assembly of TNFSF proteins. Proteolytic procession shed many TNFSF proteins as soluble trimers, most retain their receptor binding affinities, except for Fas ligand and potentially TRAIL. The extracellular domains of the TNF proteins were fused with IgG Fc portion and the resulting proteins form hexamers predominantly and exhibit avidity bindings to their receptors. Together with the classical soluble trimeric ligands (no Fc fusion), we call ABB's recombinant TNF proteins Hexa-Ligands for their excellent receptor-binding activities.

More information about Hexa-Ligands on <https://abbiosciences.com/collections/hexa-ligand>

Protein	Species	Fusion Tag	Product Name	Product Code	Amount	Price
4-1BBL	Human	His-FLAG	4-1BBL (His-FLAG-Tag)	P7001M	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880
4-1BBL	Human	Mouse IgG2a Fc	4-1BBL (Fc-Fusion)	P7001F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
4-1BBL	Human	Mouse IgG2a aglyco-Fc	4-1BBL (ΔG-Fc-Fusion)	P7118G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
APRIL	Human	Mouse IgG2a Fc	APRIL (Fc-Fusion)	P7002F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
BAFF	Human	His-FLAG	BAFF (His-FLAG-Tag)	P7003M	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880
CD27L	Human	Mouse IgG2a Fc	CD27L (Fc-Fusion)	P7004F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
CD30L	Human	Mouse IgG2a Fc	CD30L (Fc-Fusion)	P7025F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
CD30L	Human	His-FLAG	CD30L (His-FLAG-Tag)	P7025M	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880
CD40L	Human	Mouse IgG2a Fc	CD40L (Fc-Fusion)	P7005F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
CD40L	Human	Human IgG1 Fc	CD40L (h.IgG1 Fc-Fusion)	P7005H	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
CD40L	Human	His-FLAG	CD40L (His-FLAG-Tag)	P7005M	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880
CD40L	Human	No Tag	CD40L (No Tag)	P7005Y	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880

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TNF Superfamily Proteins (Hexa Ligands)

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Protein	Species	Fusion Tag	Product Name	Product Code	Amount	Price
EDA	Human	Mouse IgG2a Fc	EDA (Fc-Fusion)	P7030F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
LT-α	Human	His-FLAG	LT-α (His-FLAG-Tag)	P7006M	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880
TL1A-L	Human	Mouse IgG2a Fc	TL1A-L (Fc-Fusion)	P7042F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
TL1A-S	Human	Mouse IgG2a Fc	TL1A-S (Fc-Fusion)	P7028F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
TNF-α	Human	His-FLAG-Myc	TNF-α (His-FLAG-Myc-Tag)	P7113T	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880
TNF-α	Human	Mouse IgG2a Fc	TNF-α (Fc-Fusion)	P7113F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
TNF-α	Human	His-FLAG	TNF-α (His-FLAG-Tag)	P7113M	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880
TRAIL	Human	Mouse IgG2a Fc	TRAIL (Fc-Fusion)	P7008F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
TWEAK	Human	His-FLAG	TWEAK (His-FLAG-Tag)	P7009M	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880

TNF Receptor Superfamily Proteins

In human, 29 members of the TNF receptor (TNFR) family have been identified. Most of them are type I membrane proteins with a few exceptions. BCMA, BAFFR, TACI and XEDAR all lack the signal peptide and are classified as type III membrane proteins. Many TNF receptors interact with more than one ligand. Almost all ligands for TNFR superfamily members belong to TNF superfamily (TNFSF). The exceptions are HVEM and EGFR as BTLA and NGF/BDNF/neurophins are structurally unrelated to TNFSF proteins. The increasingly revealed details of the molecular interaction and signaling pathways have made many TNFRSF members targets of vigorous investigations for disease intervention. AB Biosciences' TNFRSF-Fc fusion proteins are homodimers linked by a pair of disulfide bonds at the hinge region of mouse IgG2a, affinity purified and size-excluded to homogeneity.

More information about TNF Receptors on <https://abbiosciences.com/collections/tnf-receptor-superfamily>

Protein	Species	Fusion Tag	Product Name	Product Code	Amount	Price
BAFFR	Human	His-FLAG	BAFFR (His-FLAG-Tag)	P7114M	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880
BAFFR	Human	Mouse IgG2a Fc	BAFFR (Fc-Fusion)	P7114F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
BAFFR	Human	Mouse IgG2a aglyco-Fc	BAFFR (ΔG-Fc-Fusion)	P7114G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
BCMA	Human	No Tag	BCMA (No Tag)	P7011Y	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880
BCMA	Human	His-FLAG	BCMA (His-FLAG-Tag)	P7011M	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880
BCMA	Human	Mouse IgG2a Fc	BCMA (Fc-Fusion)	P7011F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
BCMA	Human	Mouse IgG2a aglyco-Fc	BCMA (ΔG-Fc-Fusion)	P7011G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
BCMA	Macaque	Mouse IgG2a Fc	BCMA (CY/Fc-Fusion)	C7011F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
CD27	Human	Mouse IgG2a Fc	CD27 (Fc-Fusion)	P7082F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
CD40	Human	No Tag	CD40 (No Tag)	P7015Y	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880
DcR3	Human	Mouse IgG2a Fc	DcR3 (Fc-Fusion)	P7073F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
DR3	Human	Mouse IgG2a Fc	DR3 (Fc-Fusion)	P7065F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450

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TNF Receptor Superfamily Proteins

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Protein	Species	Fusion Tag	Product Name	Product Code	Amount	Price
DR4	Human	Mouse IgG2a Fc	DR4 (Fc-Fusion)	P7049F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
DR5	Human	Mouse IgG2a Fc	DR5 (Fc-Fusion)	P7053F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
EDAR	Human	Mouse IgG2a Fc	EDAR (Fc-Fusion)	P7045F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
FAS	Human	Mouse IgG2a Fc	FAS (Fc-Fusion)	P7061F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
GITR	Human	Mouse IgG2a Fc	GITR (Fc-Fusion)	P7035F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
GITR	Human	Mouse IgG2a aglyco-Fc	GITR (ΔG-Fc-Fusion)	P7035G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
HVEM	Human	Mouse IgG2a Fc	HVEM (Fc-Fusion)	P7076F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
HVEM	Human	Mouse IgG2a aglyco-Fc	HVEM (ΔG-Fc-Fusion)	P7076G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
LTβR	Human	Mouse IgG2a Fc	LTβR (Fc-Fusion)	P7079F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
NGFR	Human	Mouse IgG2a Fc	NGFR (Fc-Fusion)	P7017F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
OPG	Human	His-FLAG-Myc	OPG (His-FLAG-Myc-Tag)	P7019T	50 µg	\$690
					250 µg	\$2,290
					1 mg	\$5,880
OPG	Human	Mouse IgG2a Fc	OPG (Fc-Fusion)	P7019F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
OPG	Human	Mouse IgG2a aglyco-Fc	OPG (ΔG-Fc-Fusion)	P7019G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
OX40	Human	Mouse IgG2a Fc	OX40 (Fc-Fusion)	P7046F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
OX40	Human	Mouse IgG2a aglyco-Fc	OX40 (ΔG-Fc-Fusion)	P7046G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
RANK	Human	Mouse IgG2a Fc	RANK (Fc-Fusion)	P7032F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450

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TNF Receptor Superfamily Proteins

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Protein	Species	Fusion Tag	Product Name	Product Code	Amount	Price
TAC1	Human	Mouse IgG2a Fc	TAC1 (Fc-Fusion)	P7012F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
TAC1	Human	Mouse IgG2a aglyco-Fc	TAC1 (ΔG-Fc-Fusion)	P7012G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
TNFR1	Human	Mouse IgG2a Fc	TNFR1 (Fc-Fusion)	P7020F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
TNFR1	Human	Mouse IgG2a aglyco-Fc	TNFR1 (ΔG-Fc-Fusion)	P7020G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
TNFR1	Macaque	Mouse IgG2a Fc	TNFR1 (CY/Fc-Fusion)	C7020F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
TNFR2	Human	Mouse IgG2a Fc	TNFR2 (Fc-Fusion)	P7022F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
TNFR2	Human	Mouse IgG2a aglyco-Fc	TNFR2 (ΔG-Fc-Fusion)	P7022G	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
TRAIL-R3	Human	Mouse IgG2a Fc	TRAIL-R3 (Fc-Fusion)	P7057F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
TRAIL-R4	Human	Mouse IgG2a Fc	TRAIL-R4 (Fc-Fusion)	P7059F	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450

Fc Receptors

Antibodies are bi-functional molecules. The first half of the antibody contains the variable regions (Fab) recognizing the antigen. The second half of the antibody contains the crystallizable fragment (Fc) interacting with an array of Fc receptors (FcRs). The Fc-FcR interaction(s) brings the Fab-bound antigen to the proximity of immune effector cells. Both human IgG₁ and mouse IgG_{2a} are glycosylated at the Asn297 residue. Subtle variations on this glycan moiety can significantly affect the binding of the IgG to Fcγ receptors. For example, the fucosyl moiety partially impedes the binding of the IgG to FcγRIII (human) and FcγRIV (mouse). As such antibodies missing this fucose (afucosyl antibodies) can bind to these receptors with elevated affinities and have been explored for better efficacy of therapeutic antibodies.

For more information about Fc Receptors on <https://abbiosciences.com/collections/fc-r-family>

Protein	Species	Fusion Tag	Product Name	Product Code	Amount	Price
FcγRI	Human	Glutathione S Transferase (GST)	Human FcγRI (GST-Fusion)	P7131D	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
FcγRI	Mouse	Glutathione S Transferase (GST)	Mouse FcγRI (GST-Fusion)	M7131D	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
FcγRIIa, H131	Human	Glutathione S Transferase (GST)	Human FcγRIIa (H131) (GST-Fusion)	P7501D	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
FcγRIIa, R131	Human	Glutathione S Transferase (GST)	Human FcγRIIa (R131) (GST-Fusion)	P7133D	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
FcγRIIb	Human	Glutathione S Transferase (GST)	Human FcγRIIb (GST-Fusion)	P7134D	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
FcγRIIb	Mouse	Glutathione S Transferase (GST)	Mouse FcγRIIb (GST-Fusion)	M7134D	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
FcγRIIIa, F158	Human	Glutathione S Transferase (GST)	Human FcγRIII (F158) (GST-Fusion)	P7135D	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
FcγRIIIa, V158	Human	Glutathione S Transferase (GST)	Human FcγRIII (V158) (GST-Fusion)	P7502D	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
FcγRIII	Mouse	Glutathione S Transferase (GST)	Mouse FcγRIII (GST-Fusion)	M7135D	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
FcγRIV	Mouse	Glutathione S Transferase (GST)	Mouse FcγRIV (GST-Fusion)	M7511D	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450
FcRn	Human	Glutathione S Transferase (GST)	Human FcRn (GST-Fusion)	P7142D	50 µg	\$415
					250 µg	\$1,375
					1 mg	\$3,450

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