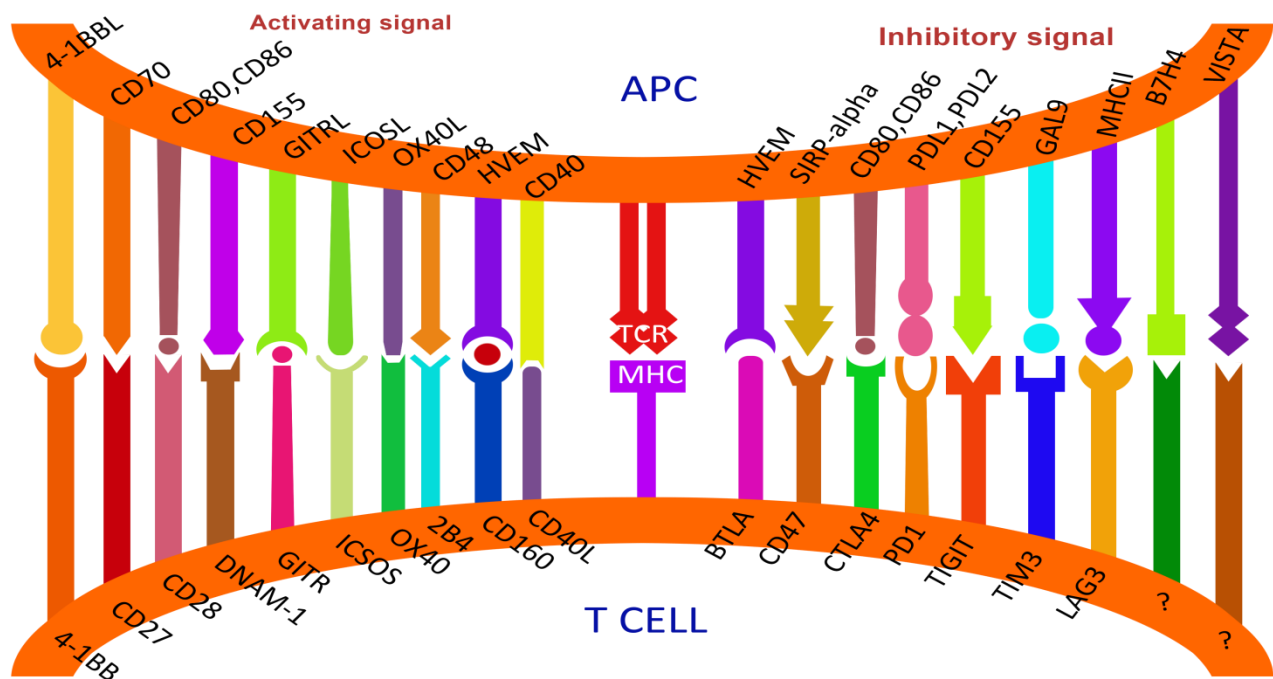
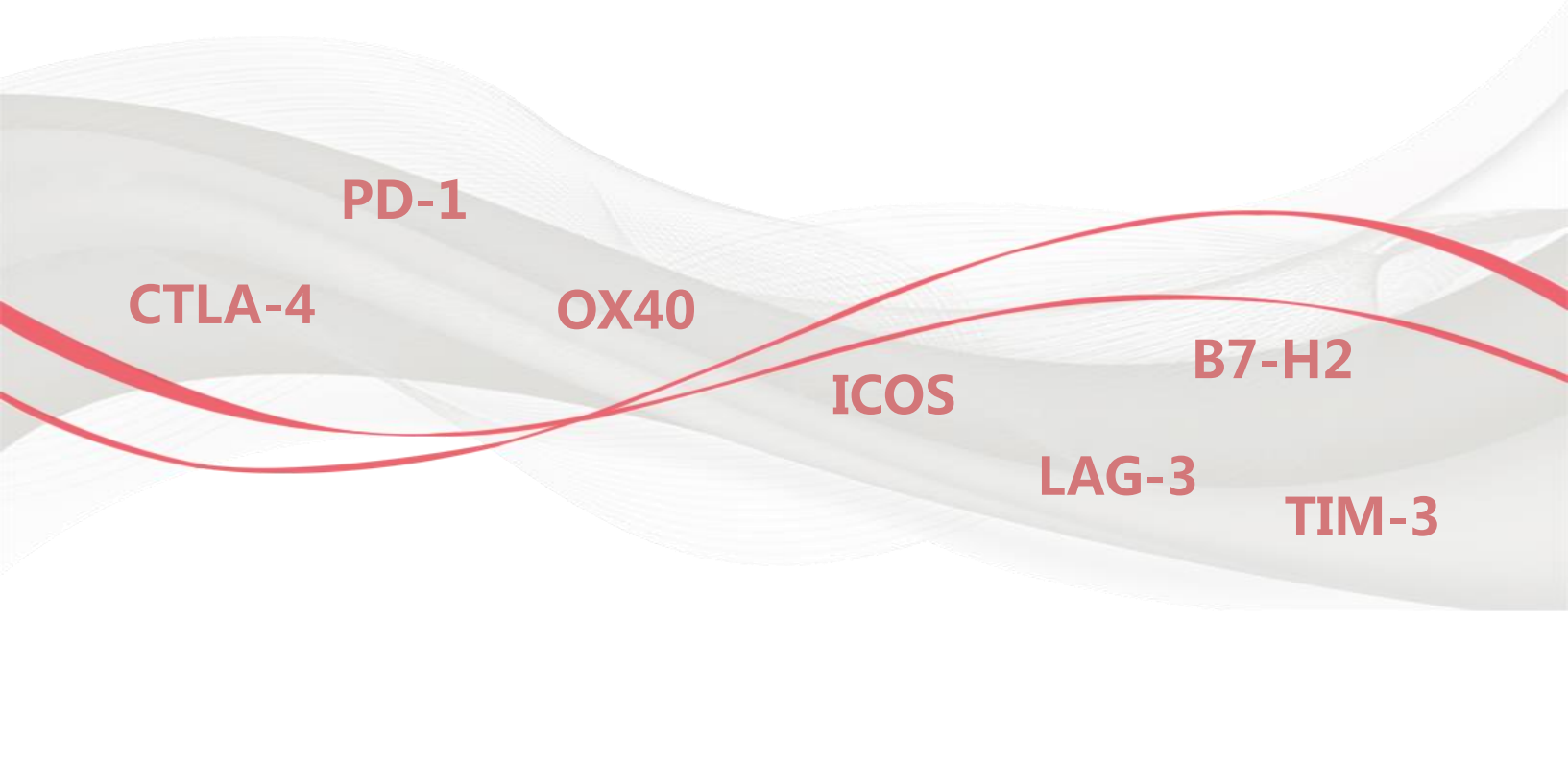


Immune Checkpoint Proteins



Content

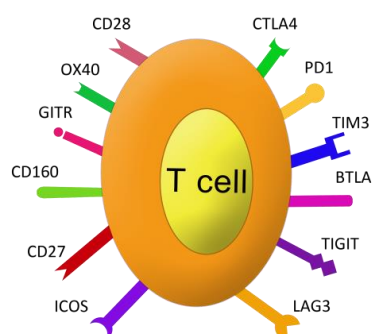
- I. Introduction**
- II. Biotinylated Immune Checkpoint Proteins**
- III. PD1:PDL1 Inhibitor Screening Assay Kit**
- IV. HPLC-Verified Checkpoint Proteins**
- V. Product List**
- VI. Testimonials**



PD-1
CTLA-4
OX40
ICOS
B7-H2
LAG-3
TIM-3

Introduction

In recent years, immune checkpoint proteins have attracted increasing attention due to their involvement in cancer development. Often times, tumor cells can hijack the checkpoint pathways to avoid attacks from the immune system. Therefore, many believe that disabling immune checkpoints would help re-engage the body's immune system to fight against cancers.



Intriguingly, anti-CTLA4 and anti-PD1 monoclonal antibodies have already demonstrated anti-tumor effect in patients with a variety of malignancies. Encouraged by this early success, researchers have expanded their investigations into other checkpoint proteins in order to find better ways to treat cancer.

To support these efforts, ACROBiosystems has developed an exclusive immune checkpoint protein collection. These products have demonstrated consistent and excellent performance in a variety of assays.

Featured Product: Biotinylated Immune Checkpoint Proteins

In addition to standard recombinant protein product, we offer a collection of pre-labeled and pre-validated biotinylated checkpoint proteins. These proteins are specially developed to help binding assays. They can be used on a variety of assay platforms including ELISA, SPR, Immuno-capture, and Biopanning.

Molecule	Cat. No.	Species	Structure	Size
4-1BB (Biotin-labeled)	41B-H82E3	Human	4-1BB (24-186) Avi His	25ug, 200ug
4-1BB (Biotin-labeled)	41B-H82F7	Human	4-1BB (24-186) Fc Avi	25ug, 200ug
B7-1 (Biotin-labeled)	B71-H82F2	Human	B7-1 (35-242) Fc Avi	25ug, 200ug
B7-2 (Biotin-labeled)	CD6-H82E2	Human	B7-2 (26-247) Avi His	25ug, 200ug
B7-2 (Biotin-labeled)	CD6-H82F5	Human	B7-2 (26-247) Fc Avi	25ug, 200ug
B7-H4 (Biotin-labeled)	B74-H82E2	Human	B7-H4 (29-258) Avi His	25ug, 200ug
B7-H4 (Biotin-labeled)	B74-H8222	Human	B7-H4 (29-258) His	25ug, 200ug
B7-H5 (Biotin-labeled)	B75-H82E1	Human	B7-H5 (33-194) Avi His	25ug, 200ug
BAFFR (Biotin-labeled)	BAR-M82F0	Mouse	BAFFR (10-71) Fc Avi	25ug, 200ug
BTLA (Biotin-labeled)	BTA-H82F8	Human	BTLA (31-134) Fc Avi	25ug, 200ug
CD155 (Biotin-labeled)	CD5-H82F6	Human	CD155 (21-343) Fc Avi	25ug, 200ug

Molecule	Cat. No.	Species	Structure	Size
CD27 (Biotin-labeled)	TN7-H82F6	 Human	CD27 (21-192) Fc Avi	25ug, 200ug
CD28 (Biotin-labeled)	CD8-H82F2	 Human	CD28 (19-152) Fc Avi	25ug, 200ug
CD40 (Biotin-labeled)	CD0-H82F2	 Human	CD40 (21-193) Fc Avi His	25ug, 200ug
CD40 (Biotin-labeled)	CD0-H82E8	 Human	CD40 (21-193) Avi His	25ug, 200ug
CD47 (Biotin-labeled)	CD7-H82E9	 Human	CD47 (19-139) His Avi	25ug, 200ug
CD47 (Biotin-labeled)	CD7-H82F6	 Human	CD47 (19-139) Fc Avi	25ug, 200ug
CTLA-4 (Biotin-labeled)	CT4-H82F3	 Human	CTLA-4 (37-162) Fc Avi	25ug, 200ug
CTLA-4 (Biotin-labeled)	CT4-C82E5	 Cynomolgus	CTLA-4 (37-160) Avi His	25ug, 200ug
DNAM-1 (Biotin-labeled)	DN1-H82F9	 Human	DNAM-1 (19-247) Fc Avi	25ug, 200ug
HVEM (Biotin-labeled)	HV4-H82F1	 Human	HVEM (39-202) Fc Avi	25ug, 200ug
IL-4 R alpha (Biotin-labeled)	ILR-H82E9	 Human	IL-4 R alpha (26-232) Avi His	25ug, 200ug
OX40 (Biotin-labeled)	OX0-H82F7	 Human	OX40 (29-216) Fc Avi	25ug, 200ug
PD-1 (Biotin-labeled)	PD1-H82E4	 Human	PD-1 (25-167) Avi His	25ug, 200ug
PD-1 (Biotin-labeled)	PD1-H82F2	 Human	PD-1 (25-167) Fc Avi His	25ug, 200ug
PD-1 (Biotin-labeled)	PD1-M8259	 Mouse	PD-1 (25-167) Fc	25ug, 200ug
PD-1 (Biotin-labeled)	PD1-M82F4	 Mouse	PD-1 (25-167) Fc Avi	25ug, 200ug
PD-L1 (Biotin-labeled)	PD1-H82E5	 Human	PD-L1 (19-238) Avi His	25ug, 200ug
PD-L1 (Biotin-labeled)	PD1-H82F3	 Human	PD-L1 (19-238) Fc Avi His	25ug, 200ug
PD-L1 (Biotin-labeled)	PD1-M82F5	 Mouse	PD-L1 (19-238) Fc Avi	25ug, 200ug
PD-L2 (Biotin-labeled)	PD2-H82E8	 Human	PD-L2 (20-219) Avi His	25ug, 200ug
TIGIT (Biotin-labeled)	TIT-H82E5	 Human	TIGIT (22-141) Avi His	25ug, 200ug
TIGIT (Biotin-labeled)	TIT-H82F1	 Human	TIGIT (22-141) Fc Avi	25ug, 200ug

Highlight: PD1:PDL1 Inhibitor Screening Assay Kit

The interaction of PD-1 with its ligand PD-L1 will suppress T-cell activation, and allow the tumor to escape from body's immune surveillance. The clinical success of nivolumab has fueled wide spread enthusiasm in studying this pathway.

To support rapid and high throughput screening of candidate inhibitory compounds of the PD1 pathway, ACROBiosystems has developed a PD1-PD-L1 inhibitor screening assay kit (Cat. # EP-101). The assay takes advantage of our in-house developed binding of biotinylated human PD-1 protein, and employs a simple colorimetric sandwich ELISA platform to assay its binding against immobilized human PD-L1.

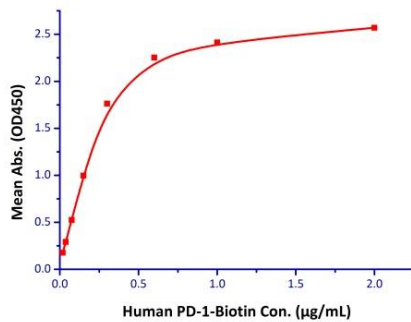


Fig. 4 Immobilized human PD-L1 protein can bind biotinylated human PD-1-Biotin when detected by Streptavidin-HRP.

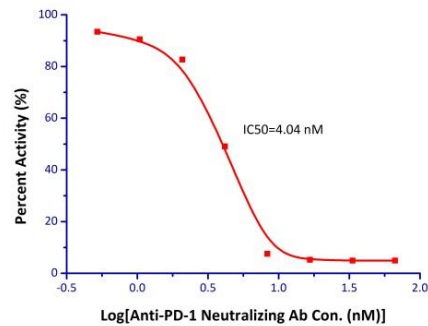




















Fig. 5 Inhibition of PD-1-PD-L1 binding by an Anti-PD-1 neutralizing antibody is measured using the PD-1 [Biotinylated] : PD-L1 Inhibitor Screening ELISA Assay Pair .

Cat. No.	Product Name	Size
EP-101	PD-1[Biotin]:PD-L1 Inhibitor Screening Pair	96 tests
EP-101	PD-1[Biotin]:PD-L1 Inhibitor Screening Pair	480 tests

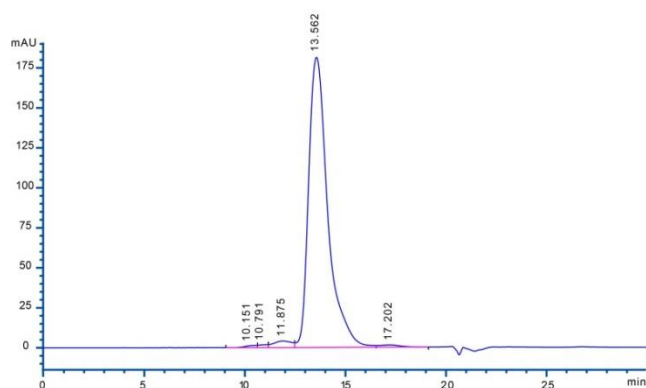
All PD1 Pathway Proteins

Molecule	Cat. No.	Species	Structure	Size
PD-1	PD1-H5284	 Human	PD-1 (25-167) Twin-Strep	25ug, 250ug
PD-1	PD1-M5228	 Mouse	PD-1 (25-167) His	100ug, 1mg
PD-1	PD1-M5259	 Mouse	PD-1 (25-167) Fc	100ug, 1mg
PD-1	PD1-R5253	 Rat	PD-1 (25-167) Fc	100ug, 1mg
PD-1	PD1-R52H2	 Rat	PD-1 (25-167) His	100ug, 1mg
PD-1	PD1-RB5251	 Rabbit	PD-1 (25-167) Fc	100ug, 1mg
PD-1	PD1-R52H0	 Rabbit	PD-1 (25-167) His	100ug, 1mg
PD-1	PD1-C5223	 Cynomolgus	PD-1 (25-167) His	50ug, 1mg
PD-1	PD1-C5254	 Cynomolgus	PD-1 (25-167) Fc	100ug, 1mg
PD-1	PD1-M52A4	 Mouse	PD-1 (21- 167) mFc	100ug, 1mg
PD-1 (Biotin-labeled)	PD1-H82E4	 Human	PD-1 (25-167) Avi His	25ug, 200ug
PD-1 (Biotin-labeled)	PD1-H82F2	 Human	PD-1 (25-167) Fc Avi His	25ug, 200ug
PD-1 (Biotin-labeled)	PD1-M8259	 Mouse	PD-1 (25-167) Fc	25ug, 200ug
PD-1 (Biotin-labeled)	PD1-M82F4	 Mouse	PD-1 (25-167) Fc Avi	25ug, 200ug
PD-1 (FITC)	PD1-HF257	 Human	PD-1 (25-167) Fc	25ug, 200ug
PD-1 (Full length)	PD1-HC214	 Human	PD-1 (25-288)	20ug
PD-1 (Heavy Labeled)	PD1-H9221	 Human	PD-1 (25-167) His	2ug
PD-1 (HPLC-verified)	PD1-H5221	 Human	PD-1 (25-167) His	100ug, 1mg
PD-1 (HPLC-verified)	PD1-H5257	 Human	PD-1 (25-167) Fc	100ug, 1mg
PD-L1	PD1-H5258	 Human	PD-L1 (19-238) Fc	100ug, 1mg
PD-L1 (HPLC-verified)	PD1-H52A3	 Human	PD-L1 (19-238) mFc	100ug, 1mg

Molecule	Cat. No.	Species	Structure	Size
PD-L1	PD1-H9229	 Human	PD-L1 (19-238) His	5ug, 20ug
PD-L1	PD1-H5282	 Human	PD-L1 (19-238) Twin-Strep	25ug, 250ug
PD-L1	PD1-M5220	 Mouse	PD-L1 (19-238) His	100ug, 1mg
PD-L1	PD1-M5251	 Mouse	PD-L1 (19-238) Fc	200ug, 1mg
PD-L1	PD1-M52A2	 Mouse	PD-L1 (19-238) mFc	100ug, 1mg
PD-L1	PD1-C5253	 Cynomolgus	PD-L1 (19-238) Fc	100ug, 1mg
PD-L1	PD1-C52H4	 Cynomolgus	PD-L1 (19-238) His	100ug, 1mg
PD-L1 (Biotin-labeled)	PD1-H82E5	 Human	PD-L1 (19-238) Avi His	25ug, 200ug
PD-L1 (Biotin-labeled)	PD1-H82F3	 Human	PD-L1 (19-238) Fc Avi His	25ug, 200ug
PD-L1 (Biotin-labeled)	PD1-M82F5	 Mouse	PD-L1 (19-238) Fc Avi	25ug, 200ug
PD-L1 (HPLC-verified)	PD1-H5229	 Human	PD-L1 (19-238) His	100ug, 1mg
PD-L2	PD2-H5220	 Human	PD-L2 (20-219) His	100ug, 1mg
PD-L2	PD2-H52A5	 Human	PD-L2 (20-219) mFc	100ug, 1mg
PD-L2	PD2-M5254	 Mouse	PD-L2 (20-219) Fc	100ug, 1mg
PD-L2	PD2-M52A5	 Mouse	PD-L2 (20-219) mFc	100ug, 1mg
PD-L2	PD2-M52E3	 Mouse	PD-L2 (20-219) His	100ug, 1mg
PD-L2 (Biotin-labeled)	PD2-H82E8	 Human	PD-L2 (20-219) Avi His	25ug, 200ug
PD-L2 (HPLC-verified)	PD2-H5251	 Human	PD-L2 (20-219) Fc	100ug, 1mg

Product Highlight: HPLC-Verified Checkpoint Proteins






Immune checkpoint proteins are heavily targeted in pharmaceutical research. The quality of these proteins is essential for assay development. In many situations, SDS-PAGE alone is not sufficient for quality control purposes. To address this need, ACROBiosystems has developed a collection of SEC-HPLC verified drug target proteins and biomarkers.



The purity of Human PD-1, Fc Tag (HPLC-verified)(Cat. # PD1-H5257) is greater than 95% as determined by SEC-HPLC.

All HPLC-Verified Checkpoint Proteins

Molecule	Cat. No.	Species	Structure	Size
B7-1	B71-H5259	Human	B7-1 (35-242) Fc	100ug, 1mg
B7-1	CD0-C52H3	Cynomolgus	B7-1 (35-242) His	100ug, 1mg
B7-2	CD6-C52H5	Cynomolgus	B7-2 (19-240) His	100ug, 1mg
CD40	CD0-H5253	Human	CD40 (21-193) Fc	100ug, 1mg
CD47	CD7-H5256	Human	CD47 (19-139) Fc	100ug, 1mg
OX40 Ligand	OXL-H52Q8	Human	His OX40 Ligand (51- 183)	50ug, 1mg
PD-1	PD1-H5221	Human	PD-1 (25-167) His	100ug, 1mg
PD-L1	PD1-H5229	Human	PD-L1 (19-238) His	100ug, 1mg
PD-1	PD1-H5257	Human	PD-1 (25-167) Fc	100ug, 1mg
PD-L1	PD1-H52A3	Human	PD-L1 (19-238)mFc	100ug, 1mg

Molecule	Cat. No.	Species	Structure	Size
PD-L2	PD2-H5251	 Human	PD-L2 (20-219) Fc	100ug, 1mg
SIRP alpha	SIA-H5225	 Human	SIRP alpha (31-370) His	100ug, 1mg
SIRP alpha	SIA-H5251	 Human	SIRP alpha (31-370) Fc	100ug, 1mg
SIRP alpha	SIA-H52A8	 Human	SIRP alpha (31-370) mFc	100ug, 1mg
SIRP alpha	SIA-H5351	 Human	SIRP alpha (31-370) Fc	100ug, 1mg

Product List



Molecule	Cat. No.	Species	Structure	Size
2B4	2B4-H5224	 Human	2B4 (22-221) His	100ug, 1mg
2B4	2B4-H5255	 Human	2B4 (22-221) Fc	100ug, 1mg
4-1BB	41B-H5227	 Human	4-1BB (24-186) His	100ug, 1mg
4-1BB	41B-H5258	 Human	4-1BB (24-186) Fc	100ug, 1mg
4-1BB	41B-C52H4	 Cynomolgus	4-1BB (24-186) His	100ug, 1mg
4-1BB	41B-M5258	 Mouse	4-1BB (24-211) Fc	100ug, 1mg
4-1BB	41B-M52H7	 Mouse	4-1BB (24-211) His	100ug, 1mg
4-1BB (Biotin-labeled)	41B-H82F7	 Human	4-1BB (24-186) Fc Avi	25ug, 200ug
4-1BB (Biotin-labeled)	41B-H82E3	 Human	4-1BB (24-186) Avi His	25ug, 200ug
4-1BB Ligand	41L-H5257	 Human	4-1BB Ligand (50-254) Fc	50ug, 1mg
4-1BB Ligand	41L-M5257	 Mouse	4-1BB Ligand (104-309) Fc	50ug, 1mg
B7-1	B71-H5228	 Human	B7-1 (35-242) His	100ug, 1mg
B7-1	CD0-M5259	 Mouse	B7-1 (38-245) Fc	100ug, 1mg
B7-1	CD0-C5252	 Cynomolgus	B7-1 (35-242) Fc	100ug, 1mg
B7-1	CD0-M5228	 Mouse	B7-1 (38-245) His	100ug, 1mg
B7-1 (Biotin-labeled)	B71-H82F2	 Human	B7-1 (35-242) Fc Avi	25ug, 200ug
B7-1 (HPLC-verified)	B71-H5259	 Human	B7-1 (35-242) Fc	100ug, 1mg
B7-1 (HPLC-verified)	CD0-C52H3	 Cynomolgus	B7-1 (35-242) His	100ug, 1mg
B7-2	CD6-H5223	 Human	B7-2 (26-247) His	100ug, 1mg
B7-2	CD6-H5257	 Human	B7-2 (26-247) Fc	200ug, 1mg
B7-2	CD6-M5251	 Mouse	B7-2 (24-245) Fc	100ug, 1mg

Product List

Molecule	Cat. No.	Species	Structure	Size
B7-2	CD6-M52H0	 Mouse	B7-2 (24-245) His	100ug, 1mg
B7-2	CD6-C5254	 Cynomolgus	B7-2 (19-240) Fc	100ug, 1mg
B7-2 (Biotin-labeled)	CD6-H82F5	 Human	B7-2 (26-247) Fc Avi	25ug, 200ug
B7-2 (Biotin-labeled)	CD6-H82E2	 Human	B7-2 (26-247) Avi His	25ug, 200ug
B7-2 (HPLC-verified)	CD6-C52H5	 Cynomolgus	B7-2 (19-240) His	100ug, 1mg
B7-H2	B72-H5221	 Human	B7-H2 (19-258) His	200ug, 1mg
B7-H3	B73-H5253	 Human	B7-H3 (29-245) Fc	100ug, 1mg
B7-H3	B73-H52E2	 Human	B7-H3 (29-245) His	100ug, 1mg
B7-H3	B73-M5255	 Mouse	B7-H3 (29-244) Fc	100ug, 1mg
B7-H3	B73-M52H4	 Mouse	B7-H3 (29-244) His	100ug, 1mg
B7-H4	B74-H5222	 Human	B7-H4 (29-258) His	100ug, 1mg
B7-H4 (Biotin-labeled)	B74-H8222	 Human	B7-H4 (29-258) His	25ug, 200ug
B7-H4 (Biotin-labeled)	B74-H82E2	 Human	B7-H4 (29-258) Avi His	25ug, 200ug
B7-H5	B75-H5259	 Human	B7-H5 (33-194) Fc	100ug, 1mg
B7-H5	B75-H52H0	 Human	B7-H5 (33-194) His	100ug, 1mg
B7-H5 (Biotin-labeled)	B75-H82E1	 Human	B7-H5 (33-194) Avi His	25ug, 200ug
BAFFR (Biotin-labeled)	BAR-M82F0	 Mouse	BAFFR (10-71) Fc Avi	25ug, 200ug
BTLA	BTA-H5255	 Human	BTLA (31-134) Fc	100ug, 1mg
BTLA	BTA-H5256	 Human	BTLA (31-150) Fc	100ug, 1mg
BTLA	BTA-H52E0	 Human	BTLA (31-150) His	50ug, 1mg
BTLA	BTA-M5253	 Mouse	BTLA (30-176) Fc	100ug, 1mg










Molecule	Cat. No.	Species	Structure	Size
BTLA	BTA-M52E2	 Mouse	BTLA (30-176) His	50ug, 1mg
BTLA (Biotin-labeled)	BTA-H82F8	 Human	BTLA (31-134) Fc Avi	25ug, 200ug
CD155	CD5-H5223	 Human	CD155 (21-343) His	100ug, 1mg
CD155	CD5-H5251	 Human	CD155 (21-343) Fc	100ug, 1mg
CD155	CD5-H5254	 Human	CD155 (21-343) mFc	100ug, 1mg
CD155 (Biotin-labeled)	CD5-H82F6	 Human	CD155 (21-343) Fc Avi	25ug, 200ug
CD160	BY5-H5229	 Human	CD160 (27-159) His	100ug, 1mg
CD27	CD7-H5254	 Human	CD27 (21-192) Fc	200ug, 1mg
CD27 (Biotin-labeled)	TN7-H82F6	 Human	CD27 (21-192) Fc Avi	25ug, 200ug
CD27 Ligand	TN7-H526x	 Human	Fc CD27 Ligand (39-193)	200ug, 1mg
CD28	CD8-H5257	 Human	CD28 (19-152) Fc	200ug, 1mg
CD28	CD8-M5257	 Mouse	CD28 (20-149) Fc	100ug, 1mg
CD28	CD8-M52H6	 Mouse	CD28 (20-149) His	100ug, 1mg
CD28 (Biotin-labeled)	CD8-H82F2	 Human	CD28 (19-152) Fc Avi	25ug, 200ug
CD40	CD0-H5228	 Human	CD40 (21-193) His	200ug, 1mg
CD40	TN5-M52H8	 Mouse	CD40 (24-193) His	100ug, 1mg
CD40	TN5-M5259	 Mouse	CD40 (24-193) Fc	100ug, 1mg
CD40	CD0-C52H7	 Rhesus macaque	CD40 (21-193) His	100ug, 1mg
CD40	CD0-C5259	 Rhesus macaque	CD40 (21-193) Fc	100ug, 1mg
CD40	CD0-C5257	 Cynomolgus	CD40 (21-193) Fc	100ug, 1mg
CD40	CD0-C52H6	 Cynomolgus	CD40 (21-193) His	100ug, 1mg

Molecule	Cat. No.	Species	Structure	Size
CD40 (Biotin-labeled)	CD0-H82F2	 Human	CD40 (21-193) Fc Avi His	25ug, 200ug
CD40 (Biotin-labeled)	CD0-H82E8	 Human	CD40 (21-193) Avi His	25ug, 200ug
CD40 (HPLC-verified)	CD0-H5253	 Human	CD40 (21-193) Fc	100ug, 1mg
CD40 Ligand	CDL-H5140	 Human	His CD40 Ligand (108-261)	100ug, 1mg
CD40 Ligand	CDL-M5248	 Mouse	His CD40 Ligand (115-260)	100ug, 1mg
CD40 Ligand	CDL-M526x	 Mouse	Fc CD40 Ligand (115-260)	100ug, 1mg
CD47	CD7-H5227	 Human	CD47 (19-139) His	50ug, 1mg
CD47	CD7-H52A5	 Human	CD47 (19-139) mFc	100ug, 1mg
CD47	CD7-M5251	 Mouse	CD47 (19-140) Fc	100ug, 1mg
CD47	CD7-R5256	 Rat	CD47 (19-140) Fc	100ug, 1mg
CD47	CD7-R5257	 Rabbit	CD47 (19-139) Fc	100ug, 1mg
CD47	CD7-C5252	 Cynomolgus	CD47 (4-126) Fc	100ug, 1mg
CD47 (Biotin-labeled)	CD7-H82F6	 Human	CD47 (19-139) Fc Avi	25ug, 200ug
CD47 (Biotin-labeled)	CD7-H82E9	 Human	CD47 (19-139) His Avi	25ug, 200ug
CD47 (Biotin-labeled)	CD7-HA2E9	 Human	CD47 (19-139) His Avi	50ug, 1mg
CD47 (HPLC-verified)	CD7-H5256	 Human	CD47 (19-139) Fc	100ug, 1mg
CD48	BC1-H5226	 Human	CD48 (27-220) His	100ug, 1mg
CTLA-4	CT4-H5229	 Human	CTLA-4 (37-162) His	100ug, 200ug, 1mg
CTLA-4	CT4-H5255	 Human	CTLA-4 (37-160) Fc	200ug, 1mg
CTLA-4	CT4-H5284	 Human	CTLA-4 (37-162) Twin-Strep	25ug, 250ug
CTLA-4	CT4-H52A4	 Human	CTLA-4 (37-162) mFc	100ug, 1mg

Molecule	Cat. No.	Species	Structure	Size
CTLA-4	CT4-M5256	 Mouse	CTLA-4 (36-162) Fc	200ug, 1mg
CTLA-4	CT4-M52A3	 Mouse	CTLA-4 (36-162) mFc	100ug, 1mg
CTLA-4	CT4-R5250	 Rabbit	CTLA-4 (36-161) Fc	100ug, 1mg
CTLA-4	CT4-R5259	 Rat	CTLA-4 (38-161) Fc	100ug, 1mg
CTLA-4	CT4-C5227	 Cynomolgus	CTLA-4 (37-160) His	200ug, 1mg
CTLA-4	CT4-C5256	 Cynomolgus	CTLA-4 (37-160) Fc	200ug, 1mg
CTLA-4	CT4-M52H5	 Mouse	CTLA-4 (36-162) His	200ug, 1mg
CTLA-4 (Biotin-labeled)	CT4-H82F3	 Human	CTLA-4 (37-162) Fc Avi	25ug, 200ug
CTLA-4 (Biotin-labeled)	CT4-C82E5	 Cynomolgus	CTLA-4 (37-160) Avi His	25ug, 200ug
CTLA-4 (Heavy Labeled)	CT4-H9229	 Human	CTLA-4 (37-162) His	20ug
DNAM-1	DN1-H5257	 Human	DNAM-1 (19-247) Fc	100ug, 1mg
DNAM-1	DN1-H52H6	 Human	DNAM-1 (19-247) His	100ug, 1mg
DNAM-1 (Biotin-labeled)	DN1-H82F9	 Human	DNAM-1 (19-247) Fc Avi	25ug, 200ug
Galectin-9	LG9-H5244	 Human	His Galectin-9 (2-323)	50ug, 1mg
GITR	GIR-H5228	 Human	GITR (26-161) His	100ug, 1mg
GITR	GIR-M5220	 Mouse	GITR (22-153) His	100ug, 1mg
GITR	GIR-M5251	 Mouse	GITR (22-153) Fc	100ug, 1mg
GITR	GIR-R5222	 Rat	GITR (20-121) His	100ug, 1mg
GITR	GIR-R5253	 Rat	GITR (20-121) Fc	100ug, 1mg
GITR	GIR-C5255	 Rhesus macaque	GITR (26-161) Fc	100ug, 1mg
GITR Ligand	GIL-H526a	 Human	Fc GITR Ligand (50-177)	50ug, 1mg

Molecule	Cat. No.	Species	Structure	Size
GITR Ligand	GIL-M526x	 Mouse	Fc GITR Ligand (47-173)	100ug, 1mg
HVEM	HVM-H5258	 Human	HVEM (39-202) Fc	200ug, 1mg
HVEM	HVM-H5283	 Human	HVEM (39-202) Twin-Strep	25ug, 250ug
HVEM	HVM-H52E9	 Human	HVEM (39-202) His	100ug, 1mg
HVEM (Biotin-labeled)	HV4-H82F1	 Human	HVEM (39-202) Fc Avi	25ug, 200ug
ICOS	ICS-H5250	 Human	ICOS (21-141) Fc	100ug, 1mg
IL-4 R alpha (Biotin-labeled)	ILR-H82E9	 Human	IL-4 R alpha (26-232) Avi His	25ug, 200ug
LAG-3	LA3-H5222	 Human	LAG-3 (23-450) His	100ug, 1mg
LAG-3	LA3-M52H5	 Mouse	LAG-3 (24-442) His	100ug, 1mg
LAG-3	LA3-R52H5	 Rat	LAG-3 (24-442) His	100ug, 1mg
OX40	OX0-H5224	 Human	OX40 (29-216) His	100ug, 1mg
OX40	OX0-H5255	 Human	OX40 (29-216) Fc	100ug, 1mg
OX40	OX0-M5228	 Mouse	OX40 (20-211) His	100ug, 1mg
OX40	OX0-M5259	 Mouse	OX40 (20-211) Fc	100ug, 1mg
OX40	OX0-R5253	 Rat	OX40 (20-210) Fc	100ug, 1mg
OX40	OX0-R5254	 Rabbit	OX40 (19-208) Fc	100ug, 1mg
OX40	OX0-C5220	 Rhesus macaque	OX40 (28-214) His	100ug, 1mg
OX40	OX0-C5251	 Rhesus macaque	OX40 (28-214) Fc	100ug, 1mg
OX40 (Biotin-labeled)	OX0-H82F7	 Human	OX40 (29-216) Fc Avi	25ug, 200ug
OX40 Ligand	OXL-H526x	 Human	Fc OX40 Ligand (51-183)	100ug, 1mg
OX40 Ligand	OXL-M526x	 Mouse	Fc OX40 Ligand (49-198)	100ug, 1mg

Molecule	Cat. No.	Species	Structure	Size
OX40 Ligand (HPLC-verified)	OXL-H52Q8	 Human	His OX40 Ligand (51- 183)	50ug, 1mg
PD-1	PD1-H5284	 Human	PD-1 (25-167) Twin-Strep	25ug, 250ug
PD-1	PD1-M5228	 Mouse	PD-1 (25-167) His	100ug, 1mg
PD-1	PD1-M5259	 Mouse	PD-1 (25-167) Fc	100ug, 1mg
PD-1	PD1-M52A4	 Mouse	PD-1 (21- 167) mFc	100ug, 1mg
PD-1	PD1-R5253	 Rat	PD-1 (25-167) Fc	100ug, 1mg
PD-1	PD1-R52H2	 Rat	PD-1 (25-167) His	100ug, 1mg
PD-1	PD1-R52H0	 Rabbit	PD-1 (25-167) His	100ug, 1mg
PD-1	PD1-RB5251	 Rabbit	PD-1 (25-167) Fc	100ug, 1mg
PD-1	PD1-C5223	 Cynomolgus	PD-1 (25-167) His	50ug, 1mg
PD-1	PD1-C5254	 Cynomolgus	PD-1 (25-167) Fc	100ug, 1mg
PD-1 (Biotin-labeled)	PD1-H82E4	 Human	PD-1 (25-167) Avi His	25ug, 200ug
PD-1 (Biotin-labeled)	PD1-H82F2	 Human	PD-1 (25-167) Fc Avi His	25ug, 200ug
PD-1 (Biotin-labeled)	PD1-M8259	 Mouse	PD-1 (25-167) Fc	25ug, 200ug
PD-1 (Biotin-labeled)	PD1-M82F4	 Mouse	PD-1 (25-167) Fc Avi	25ug, 200ug
PD-1 (FITC)	PD1-HF257	 Human	PD-1 (25-167) Fc	25ug, 200ug
PD-1 (Full Length)	PD1-HC214	 Human	PD-1 (25-288)	20ug
PD-1 (Heavy Labeled)	PD1-H9221	 Human	PD-1 (25-167) His	2ug
PD-1 (HPLC-verified)	PD1-H5221	 Human	PD-1 (25-167) His	100ug, 1mg
PD-1 (HPLC-verified)	PD1-H5257	 Human	PD-1 (25-167) Fc	100ug, 1mg
PD-L1	PD1-H9229	 Human	PD-L1 (19-238) His	5ug, 20ug

Molecule	Cat. No.	Species	Structure	Size
PD-L1	PD1-H5258	 Human	PD-L1 (19-238) Fc	100ug, 1mg
PD-L1	PD1-H5282	 Human	PD-L1 (19-238) Twin-Strep	25ug, 250ug
PD-L1	PD1-M5220	 Mouse	PD-L1 (19-238) His	100ug, 1mg
PD-L1	PD1-M5251	 Mouse	PD-L1 (19-238) Fc	200ug, 1mg
PD-L1	PD1-M52A2	 Mouse	PD-L1 (19-238) mFc	100ug, 1mg
PD-L1	PD1-C5253	 Cynomolgus	PD-L1 (19-238) Fc	100ug, 1mg
PD-L1	PD1-C52H4	 Cynomolgus	PD-L1 (19-238) His	100ug, 1mg
PD-L1 (Biotin-labeled)	PD1-H82F3	 Human	PD-L1 (19-238) Fc Avi His	25ug, 200ug
PD-L1 (Biotin-labeled)	PD1-H82E5	 Human	PD-L1 (19-238) Avi His	25ug, 200ug
PD-L1 (Biotin-labeled)	PD1-M82F5	 Mouse	PD-L1 (19-238) Fc Avi	25ug, 200ug
PD-L1 (HPLC-verified)	PD1-H5229	 Human	PD-L1 (19-238) His	100ug, 1mg
PD-L1 (HPLC-verified)	PD1-H52A3	 Human	PD-L1 (19-238) mFc	100ug, 1mg
PD-L2	PD2-H5220	 Human	PD-L2 (20-219) His	100ug, 1mg
PD-L2	PD2-H52A5	 Human	PD-L2 (20-219) mFc	100ug, 1mg
PD-L2	PD2-M5254	 Mouse	PD-L2 (20-219) Fc	100ug, 1mg
PD-L2	PD2-M52A5	 Mouse	PD-L2 (20-219) mFc	100ug, 1mg
PD-L2	PD2-M52E3	 Mouse	PD-L2 (20-219) His	100ug, 1mg
PD-L2 (Biotin-labeled)	PD2-H82E8	 Human	PD-L2 (20-219) Avi His	25ug, 200ug
PD-L2 (HPLC-verified)	PD2-H5251	 Human	PD-L2 (20-219) Fc	100ug, 1mg
SIRP alpha (HPLC-verified)	SIA-H5225	 Human	SIRP alpha (31-370) His	100ug, 1mg
SIRP alpha (HPLC-verified)	SIA-H5251	 Human	SIRP alpha (31-370) Fc	100ug, 1mg

Molecule	Cat. No.	Species	Structure	Size
SIRP alpha (HPLC-verified)	SIA-H52A8	 Human	SIRP alpha (31-370) mFc	100ug, 1mg
SIRP alpha (HPLC-verified)	SIA-H5351	 Human	SIRP alpha (31-370) Fc	100ug, 1mg
TIGIT	TIT-H5254	 Human	TIGIT (22-141) Fc	50ug, 1mg
TIGIT	TIT-H52H3	 Human	TIGIT (22-141) His	50ug, 1mg
TIGIT	TIT-M5257	 Mouse	TIGIT (26-143) Fc	50ug, 1mg
TIGIT	TIT-M52E6	 Mouse	TIGIT (26-143) His	50ug, 1mg
TIGIT	TIT-R5258	 Rat	TIGIT (17-138) Fc	50ug, 1mg
TIGIT	TIT-R5259	 Rabbit	TIGIT (16-142) Fc	50ug, 1mg
TIGIT	TIT-C5223	 Cynomolgus	TIGIT (89-209) His	50ug, 1mg
TIGIT	TIT-C5254	 Cynomolgus	TIGIT (89-209) Fc	50ug, 1mg
TIGIT	TIT-H5253	 Human	TIGIT (22-141) mFc	100ug, 1mg
TIGIT (Biotin-labeled)	TIT-H82E5	 Human	TIGIT (22-141) Avi His	25ug, 200ug
TIGIT (Biotin-labeled)	TIT-H82F1	 Human	TIGIT (22-141) Fc Avi	25ug, 200ug
TIM-3	TM3-H5229	 Human	TIM-3 (22-200) His	100ug, 1mg
TIM-3	TM3-H5258	 Human	TIM-3 (22-200) Fc	100ug, 1mg
TIM-3	TI3-H5285	 Human	TIM-3 (22-200) Twin-Strep	50ug, 250ug
TIM-3	TI3-M5252	 Mouse	TIM-3 (20-191) Fc	100ug, 1mg
TIM-3	TI3-M52H1	 Mouse	TIM-3 (20-191) His	100ug, 1mg
TIM-3	KI3-H5252	 Human	TIM-3 (22-142) Fc	100ug, 1mg

Testimonials

"I have been very satisfied with ACROBiosystems' products and customer service. Their technical support team has been extraordinarily proactive in making sure that our needs are being fully addressed. They always work closely with us to help us find the products that suited our research the best. This includes offering an array of samples for free for our preliminary testing. The demonstration of such awareness of subtle issues surrounding our research was quite unexpected and highly impressive.

Vidal F.de la Cruz, Founder & Principal of Fomento Pharma, LLC

"Rubicon Biotechnology considers ACROBiosystems a preferred vendor to supply us with high quality proteins for our drug development programs, including using their proteins in our in vivo studies. We have contracted with ACROBiosystems to manufacture high purity custom proteins and they proposed, and met, aggressive delivery times that allowed Rubicon to start some critical proof-of-concept studies. Acro's customer service was extremely knowledgeable and responsive and kept us up to date on their progress. We never felt out of the loop. We are extremely satisfied with ACROBiosystems and would recommend them to anyone in the protein discovery and development fields.

Richard Richieri, Founding Partner & Chief Operating Officer, Rubicon Biotechnology

"TNF-alpha immunocapture is easy to automate and offers a very specific sample preparation by isolating only the compound of interest. Furthermore the high specificity generates very low and robust MS/MS signal to noise ratios and has allowed us to gain a factor of ten in sensitivity. Thus our mass spectrometer which hitherto was not sensitive enough, can now detect levels of concentration of our therapeutic monoclonal antibody which are compatible with the clinical diagnosis.

Jean-François Jourdil, University Hospital of Grenoble

"In my ten years of research experience, I have found that the protein products produced by ACROBiosystems are equal to none. They are exceptional in their purity and activity and, as such, have greatly enhanced the quality of my research. It has been a pleasure to find a great multitude of proteins, most with a variety of tags, all offered by a single company. In addition, the efficiency and cordiality of their customer service matches the excellence of their products, resulting in one very satisfied customer!

Adam D. Friedman, University of North Carolina at Chapel Hill

TIM-3CTLA-44-1BB
Immune Checkpoint
Biotinylated**HER2**
B7-H4 TIGIT 4-1BB Ligand
FCRn **CD40GITR**
PD-L2**HER2**
DNAM-1**B7-1**
TIM-3FcRn
TNF- alpha**LAG-3**
CD19OX40 Ligand B7-H2
PD-1**CD47PCSK9**
Immune Checkpoint
Biotin-labeled
PCSK9**VEGF165**
FcRn **HER2** **ICOS**
B7-H4 **BTLA** **CD27CD48**
TIM-3 CTLA-4
Biotin-labeled
HER2**PD-L2** **B7-H4** **DNAM-1**
VEGF165 **FcRn** **PD-L1**
PD-L2 **BTLA** **CTLA-4**
PCSK9 **FcRn**
DNAM-1 **PD-L2** **PD-L1**
GITR Ligand **Biotinylated** **PD-1**
TNF-alphaPD-L2