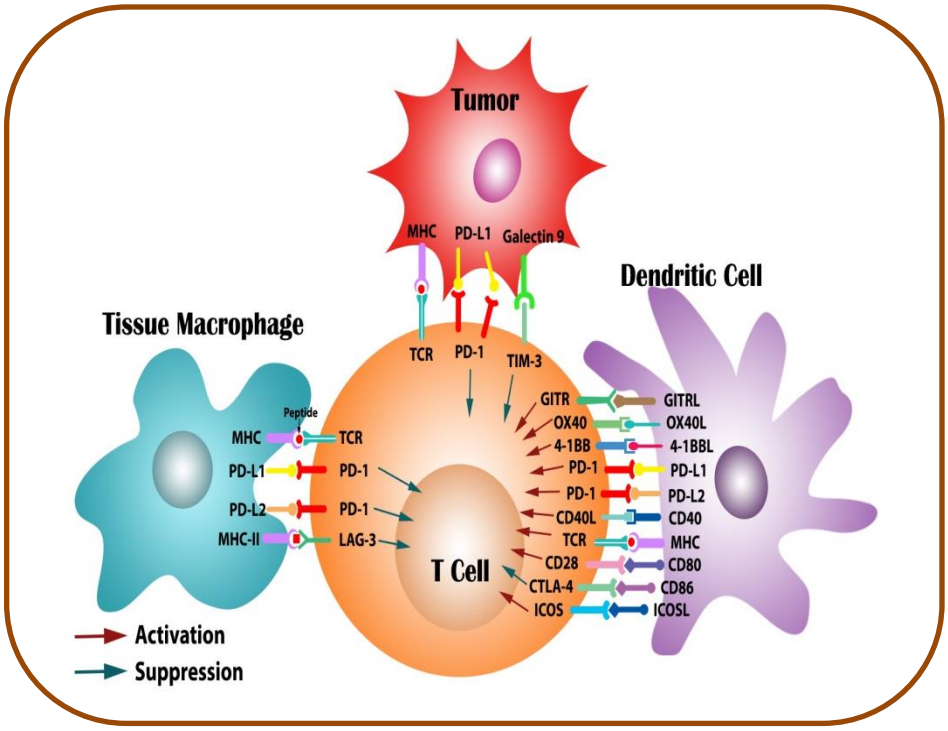
Immune Checkpoint Inhibitors



Much of the recent advancement in the field of tumor immunology and immunotherapy has been generated by the recognition that immune checkpoint proteins can be blocked by human antibodies. Immune checkpoint pathways involve both costimulatory and inhibitory proteins. The costimulatory receptors transduce signals to promote immunity against pathogens. The inhibitory receptors, on the other hand, negatively regulate T-cell activation to prevent excessive inflammation. Immunomodulatory antibodies directed against cytotoxic T lymphocyte antigen-4 (CTLA-4) and programmed death-1 (PD-1), have demonstrated significant promise in the treatment of melanoma and other tumor types.

These agents are commonly called "checkpoint inhibitors" because they block normally negative regulators of T cell immunity. Numerous other immune checkpoint pathways that could be the target of novel therapies have been identified and are currently under development for clinical testing. **BioVision** offers a comprehensive collection of immune check point proteins and antibodies to support immune checkpoint blockade research. These products have demonstrated consistent and excellent performance in a variety of assays.

Checkpoint Blocking Antibodies

Product Name	Catalog No.	Size	Host	Species	Application
4-1BBL Antibody	5369-30T, 100	30 µg, 100 µg	Rb	hu	WB, IHC
BTLA Polyclonal Antibody	A1082-50	50 µg	Rb	hu	WB, IHC, IF
CD137 Polyclonal Antibody	A1088-100	100 µl	Rb	hu	WB, ELISA, IF
CD137/4-1BB Antibody	A1087-50	50 µl	Rb	hu, ms, rt	IHC
CD223 (LAG3) Polyclonal Antibody	A1067-100	100 µg	Rb	hu, ms	WB, IHC, FC
CD27 Polyclonal Antibody	A1074-100	100 µg	Rb	hu	WB, FC
CD28 Polyclonal Antibody	A1076-100	100 µg	Rb	hu	WB, ELISA
CTLA4 Polyclonal Antibody	A1083-100	100 µl	Rb	hu	WB, IHC
GITR / TNFSF18 Monoclonal Antibody	A1086-50	50 µg	Ms	hu	WB
GITR / TNFSF18 Polyclonal Antibody	A1085-100	100 µl	Rb	hu	WB
HVEM / TNFRSF14 Antibody	A1084-50	50 µg	Rb	hu, ms	WB, IHC, IF
OX40 Antibody	3890-100	100 µg	Rb	Rt	WB
PD-1/PDCD1 Antibody	6931-50	50 µg	Rb	hu	WB, ELISA
Tim-3 Antibody	3808-100	100 µg	Rb	hu	WB, IHC

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Immune Checkpoint Proteins

Product Name	Catalog No.	Size	Source
4-1BB Receptor, human recombinant	4370-100, -1000	100 µg, 1000 µg	E. coli
CD226, human recombinant	7310-100	100 µg	E. coli
CD40Ligand/TRAP, human recombinant	4014-10, -1000	10 µg, 1000 µg	E. coli
Human CellExp™ 4-1BB Ligand/TNFSF9, Human recombinant	9240-10, -25	10 µg, 25 µg	HEK293 cells
Human CellExp™ B7-2 /CD86, Human recombinant	7496-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ B7-H3 / CD276, Human recombinant	9239-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ B7-H5 / VISTA, Human recombinant	9242-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ BTLA, Human recombinant	9228-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ CD155, human recombinant	7462-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ CD160/BY55, human recombinant	7386-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ CD172A / SIRP, human recombinant	7506-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ CD244 / 2B4 / SLAMF4, Human recombinant	7374-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ CD27 / TNFRSF7, Human recombinant	9243-25, -100	25 µg, 100 µg	HEK293 cells
Human CellExp™ CD273 / B7-DC / PD-L2, Human recombinant	7369-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ CD28, Human recombinant	9237-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ CD47, Human recombinant	7385-10	10 µg	HEK293 cells
Human CellExp™ CD80, Human recombinant	7383-10, 50	10 µg, 50 µg	HEK293 cells
Human CellExp™ CTLA4/CD152, human recombinant	7476-20, -100	20 µg, 100 µg	HEK293 cells
Human CellExp™ GITR / TNFRSF18, Human recombinant	9231-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ Human CD40/ TNFRSF5, Human recombinant	9230-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ HVEM/TNFRSF14, Human recombinant	7466-20, -100	20 µg, 100 µg	HEK293 cells
Human CellExp™ ICOS / CD278, Human recombinant	9238-10, -100	10 µg, 100 µg	HEK293 cells
Human CellExp™ ICOSLG /B7-H2 /CD275, Human recombinant	7426-20, -100	20 µg, 100 µg	HEK293 cells
Human CellExp™ OX40 Ligand / TNFSF4, Human recombinant	9244-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ PD-1 /PDCD1, C-Fc Tag, Human recombinant	7500-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ PD-1 /PDCD1, C-Fc Tag, Mouse recombinant	7503-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ PD-1 /PDCD1, Human recombinant	7498-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ PD-1 /PDCD1, Mouse recombinant	7499-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ PD-L1 /CD274 /B7-H1, Human recombinant	7429-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ PD-L1 /CD274 /B7-H1, Mouse recombinant	7428-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™ TIGIT, human recombinant	8015-10	10 µg	HEK293 cells
Human CellExp™ TIM3/HAVR2 Protein, Human Recombinant	P1002-20, -100	20 µg, 100 µg	HEK293 cells
Human CellExp™ TNFRSF4/OX40 /CD134, human recombinant	7438-10	10 µg	HEK293 cells
Human CellExp™ VTCN1, Human recombinant	7412-10, -50	10 µg, 50 µg	HEK293 cells
Human CellExp™LAG3 /CD223, Human recombinant	7278-10, -50	10 µg, 50 µg	HEK293 cells
PD-1/PDCD1, Human Recombinant	P1024-10, -50	10 µg, 50 µg	E. coli
PD-L1 /CD274, Human Recombinant	P1023-10, -50	10 µg, 50 µg	E. coli
sCD27 Ligand, Human Recombinant	7125-10, -50	10 µg, 50 µg	E. coli