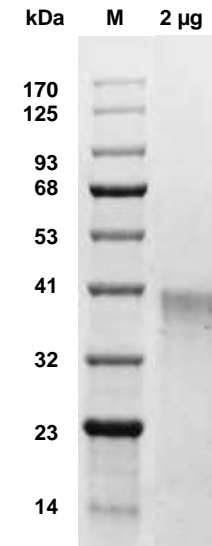


Human CellExp™ PD-1 /PDCD1, Mouse Recombinant

CATALOG NO:	7499-10	10 µg
	7499-50	50 µg
	7499-250	250 µg
	7499-1000	1 mg
ALTERNATE NAMES:	PDCD1, PD1, CD279, SLEB2, PD-1, PD-I	
SOURCE:	HEK 293 cells (Leu 25 – Gln 167)	
PURITY:	> 95% by SDS-PAGE	
MOL. WEIGHT:	This protein is fused with a polyhistidine tag at the C-terminus, and has a calculated MW of 17.4 kDa. The predicted N-terminus is Leu 25. DTT-reduced protein migrates as 32-41 kDa in SDS-PAGE due to glycosylation.	
FORM:	Lyophilized	
FORMULATION:	Lyophilized from 0.22 µm filtered solution in PBS pH 7.4	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -80°C for up to 3 months. Avoid repeated freezing and thawing cycles.	
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in distilled water.	
DESCRIPTION:	<p>Programmed cell death protein 1 (PD-1) is also known as CD279 and PDCD1, is a type I membrane protein and is a member of the extended CD28/CTLA-4 family of T cell regulators. PDCD1 is expressed on the surface of activated T cells, B cells, macrophages, myeloid cells and a subset of thymocytes. PD-1 is an immune checkpoint and guards against autoimmunity through a dual mechanism of promoting apoptosis in antigen-specific T-cells in lymph nodes while simultaneously reducing apoptosis in regulatory T cells (anti-inflammatory, suppressive T cells). PD-1 has two ligands, PD-L1 and PD-L2, which are members of the B7 family. PD-L1 is expressed on almost all murine tumor cell lines, including PA1 myeloma, P815 mastocytoma, and B16 melanoma upon treatment with IFN-γ. PD-L2 expression is more restricted and is expressed mainly by DCs and a few tumor lines. PD1 inhibits the T-cell proliferation and production of related cytokines including IL-1, IL-4, IL-10 and IFN-γ by suppressing the activation and transduction of PI3K/AKT pathway. In addition, colligation of PD1 inhibits BCR-mediated signal by dephosphorylating key signal transducer. In vitro, treatment of anti-CD3 stimulated T cells with PD-L1-Ig results in reduced T cell proliferation and IFN-γ secretion.</p>	



SDS-PAGE (4-20%) of Mouse recombinant PD-1/PDCD1: Recombinant protein loaded under reducing conditions and stained with Coomassie Blue. The protein migrates as 32-41 kDa in SDS-PAGE due to glycosylation.

RELATED PRODUCTS:

- Human CellExp™ PD-1 /PDCD1, human recombinant (**Cat. No. 7498-10, -50**)
- Human CellExp™ PD-1 /PDCD1, C-Fc Tag, human recombinant (**Cat. No. 7500-10, -50**)
- Human CellExp™ PD-1 /PDCD1, C-Fc Tag, mouse recombinant (**Cat. No. 7501-10, -50**)
- Human CellExp™ PD-1, Fc Tag, Biotinylated, human recombinant (**Cat. No. 7502-10, -50**)
- Human CellExp™ PD-L1 /CD274, human recombinant (**Cat. No. 7429-10, -50**)
- Human CellExp™ CD223, human recombinant (**Cat. No. 7278-10, -50**)
- Human CellExp™ CD71, human recombinant (**Cat. No. 7279-10, -50**)
- Human CellExp™ CD273, human recombinant (**Cat. No. 7369-10, -50**)
- Human CellExp™ CD33, human recombinant (**Cat. No. 7370-10, -50**)
- Human CellExp™ CD36, human recombinant (**Cat. No. 7371-10, -50**)
- Human CellExp™ CD87, human recombinant (**Cat. No. 7372-20, -100**)

FOR RESEARCH USE ONLY. Not to be used on humans.