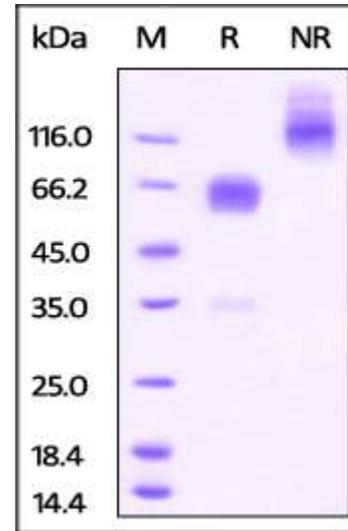


Human CellExp™ PD-1 / PDCD1 Protein, mouse recombinant

CATALOG NO:	P1086-10 P1086-50	10 µg 50 µg
ALTERNATE NAMES:	PDCD1, PD1, CD279, SLEB2	
SOURCE:	HEK 293 cells (Ser 21 – Gln 167)	
PURITY:	> 95% by SDS – PAGE	
MOL. WEIGHT:	This protein is fused with human IgG2a Fc tag at C terminus and the protein has a calculated MW of 43.7 kDa. The predicted N-terminus is Glu 21. The protein migrates as 55-66 kDa under reducing (R) condition and 100-130 kDa under non-reducing (NR) condition on SDS-PAGE gel due to glycosylation.	
ENDOTOXIN LEVEL:	< 1.0 EU per 1µg of protein (determined by LAL method)	
FORM:	Lyophilized	
FORMULATION:	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Generally Mannitol or Trehalose is added as a protectant before lyophilization.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -70°C and use within 3 months. Avoid repeated freezing and thawing cycles.	
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -70°C.	
DESCRIPTION:	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 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, coligation 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. Monoclonal antibodies targeting PD-1 that boost the	



The purity of mouse PD-1 / PDCD1 was determined by SDS-PAGE under reducing (R) condition and staining overnight with Coomassie Blue.

RELATED PRODUCT:

- PD-1/PDCD1, Human Recombinant (**Cat. No. P1024-10,-50**)
- PD-L1 /CD274, Human Recombinant (**Cat. No. P1023-10,-50**)
- PD-1 (human) ELISA Kit (**Cat. No. K4153-100**)
- PD-1/PD-L1 Inhibitor 2 (Cat. No. B1050-5,-25)
- Human CellExp™ Biotinylated PD-1 / PDCD1, His Tag & Fc Tag, human recombinant (**Cat. No. 7877-5**)
- Human CellExp™ PD-1 /PDCD1, C-Fc Tag, human recombinant (**Cat. No. 7500-10,-50**)
- Human CellExp™ PD-1 /PDCD1, human recombinant (**Cat. No. 7498-10,-50,-1000**)

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