

Datasheet for ABIN2181603

PD-1 Protein (AA 25-167) (Fc Tag)





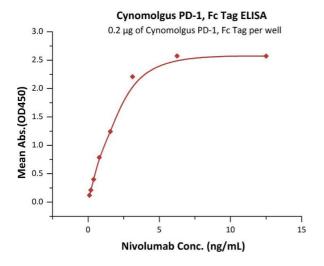
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Overview

Quantity:	100 μg
Target:	PD-1 (PDCD1)
Protein Characteristics:	AA 25-167
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PD-1 protein is labelled with Fc Tag.
Product Details	
Sequence:	AA 25-167
Sequence: Characteristics:	AA 25-167 This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 42.6 kDa. As a result of different glycosylation, the protein migrates as 55-66 kDa under reducing (R) condition, and 110-140 kDa under non-reducing (NR) condition (SDS-PAGE).
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Characteristics: Purity: Sterility:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 42.6 kDa. As a result of different glycosylation, the protein migrates as 55-66 kDa under reducing (R) condition, and 110-140 kDa under non-reducing (NR) condition (SDS-PAGE). >90 % as determined by SDS-PAGE. 0.22 µm filtered

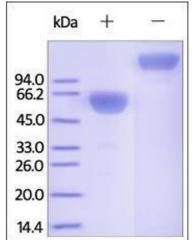
Target Details

Alternative Name:	PD-1 (PDCD1 Products)
Background:	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-mediating 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 immune system are being
	developed for the treatment of cancer.
Molecular Weight:	42.6 kDa
UniProt:	B0LAJ3
Pathways:	Cancer Immune Checkpoints
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	50 mM Tris, 100 mM Glycine, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After



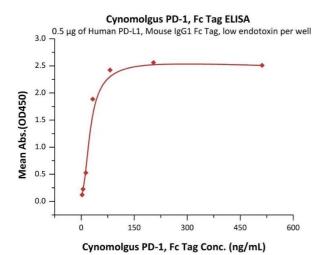
ELISA

Image 1. Immobilized Cynomolgus PD-1, Fc Tag (ABIN2181604,ABIN2181603) at 2 μ g/mL (100 μ L/well) can bind Nivolumab with a linear range of 0.1-3 ng/mL (Routinely tested).



SDS-PAGE

Image 2. Cynomolgus PD-1, Fc Tag on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



ELISA

Image 3. Immobilized Human PD-L1, Mouse IgG1 Fc Tag, low endotoxin (Hied) (ABIN2870682,ABIN2870683) at $5\,\mu$ g/mL (100 μ L/well) can bind Cynomolgus PD-1, Fc Tag (ABIN2181604,ABIN2181603) with a linear range of 3-33 ng/mL (QC tested).