

Human CellExp PD-1 /PDCD1, C-Fc Tag, mouse recombinant protein

PD, PD 1, PD 1 protein, PD 1 recombinant protein, mouse PD 1 protein, mouse recombinant PD 1 protein Catalog # PBV11122r

Specification

Human CellExp PD-1 /PDCD1, C-Fc Tag, mouse recombinant protein - Product info

Primary Accession <u>002242</u>

Calculated MW

This protein is fused with a human IgG1 Fc
tag at the C-terminus, and has a calculated

MW of 43.2 kDa. The predicted N-terminus is Ser 21. DTT-reduced Protein migrates as

60-66 kDa in SDS-PAGE due to

glycosylation. KDa

Human CellExp PD-1 /PDCD1, C-Fc Tag, mouse recombinant protein - Additional Info

Gene ID 18566
Gene Symbol PDCD1

Other Names

PDCD1, PD1, CD279, SLEB2, hPD-1, hPD-I

Gene Source Mouse

Source HEK293 cells
Assay&Purity SDS-PAGE; ≥92%

Assay2&Purity2 N/A; Recombinant Yes

Results Measured by its binding ability in a

functional ELISA. Immobilized recombinant mouse PD-1 /PDCD1 Fc Chimera at 2 μ g/mL (100 μ l/well) can bind biotinylated Mouse PD-L1 with a linear range of 32 - 500

ng/mL.

Target/Specificity

PD-1/PDCD1

Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 μ g/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 -20°C.

Format

Lyophilized

Storage

-20°C; Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM glycine, pH 7.5. Normally Mannitol or Trehalose is added as protectants before lyophilization.



Human CellExp PD-1 /PDCD1, C-Fc Tag, mouse recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Human CellExp PD-1 /PDCD1, C-Fc Tag, mouse recombinant protein - Images

Human CellExp PD-1 /PDCD1, C-Fc Tag, mouse recombinant protein - 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. This protein is suitable for use in protein studies such as protein structure analysis and protein-protein interactions. It can also be used as an immunogen, as a protein standard, or in cell biology research applications.

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