Recombinant Human PD-1/PDCD1/CD279 Protein

Catalog No.: RP00402

www.abclonal.com

Sequence Information

Species
Human

Gene ID
5133

Swiss Prot
Q15116-1

Tags
C-mFc

Synonyms
PDCD1; PD1; CD279; SLEB2; PD-1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
41.6 kDa

Observed MW
64-68 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Programmed Death-1 receptor (PD-1), also known as CD279, is type I transmembrane protein belonging to the CD28 family of immune regulatory receptors.PD1 is a inhibitory receptor on antigen activated T-cells that plays a critical role in induction and maintenance of immune tolerance to self. Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed:21276005). Following T-cell receptor (TCR) engagement, PDCD1 associates with CD3-TCR in the immunological synapse and directly inhibits T-cell activation.

Basic Information

Description
Recombinant Human PD-1/PDCD1/CD279 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu25-Gln167) of Human PD-1/PDCD1 (Accession #Q15116-1) fused with a C-mFc tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

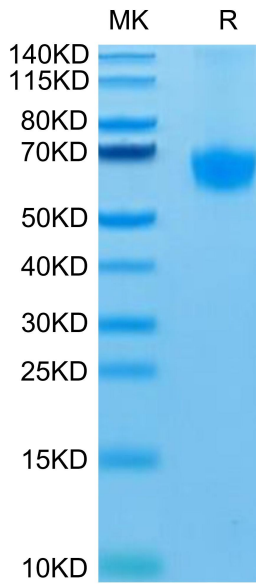
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

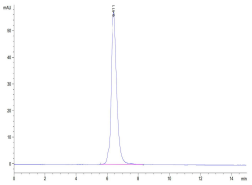
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

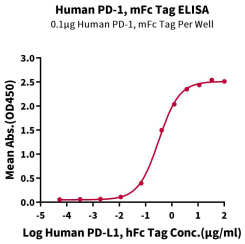
Validation Data



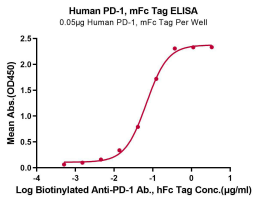
Recombinant Human PD-1/PDCD1/CD279 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human PD-1 is greater than 95% as determined by SEC-HPLC.



Immobilized Human PD-1, mFc Tag at 1 μg/mL (100 μL/well) on the plate. Dose response curve for Human PD-L1, hFc Tag with the EC_{50} of 0.17 μg/mL determined by ELISA (QC Test).



Immobilized Human PD-1, mFc Tag at 0.5 μg/mL (100 μL/Well). Dose response curve for Biotinylated Anti-PD-1 Ab., hFc Tag with the EC_{50} of 68ng/mL determined by ELISA.