

Recombinant Mouse B7-H1/PD-L1/CD274 Protein

Catalog No.: RP01158

Sequence Information

Species **Gene ID**
Mouse 60533

Swiss Prot **Tags**
Q9EP73 C-His

Synonyms

PD-, B7h1, Pdl1, Pdcd1l, Pdcd1l1,
Pdcd1lg1, A530045L16Rik, CD274

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
determined by
SDS-PAGE; ≥ 90
% as determined
by HPLC.

Calculated MW **Observed MW**
27.61 kDa 40-55 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL
method.

Formulation

Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4. Contact us
for customized product form or
formulation.

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 stabilizer
(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 ligand-1 (PD-L1, CD274, B7-H1) has been identified as the ligand for the immunoinhibitory receptor programmed death-1 (PD1/PDCD1). PD-L1/B7-H1 is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. PD-L1/B7-H1 is a member of the growing B7 family of immune molecules that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Expression of this gene in tumor cells is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma.

Basic Information

Description

Recombinant Mouse B7-H1/PD-L1/CD274 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Thr238) of mouse PD-L1/B7-H1 (Accession #NP_068693) fused with a 6×His tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Mouse PD-L1 at 10 μg/mL (100 μL/well) can bind Recombinant Mouse PD-1 with a linear range of 1.5-5 μg/mL.

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°C

Operational Notes

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

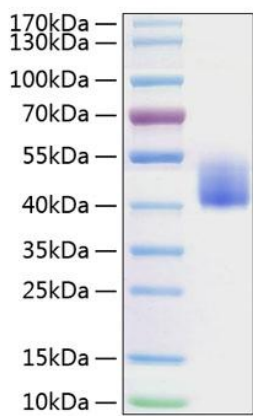
Contact

☎ | 400-999-6126

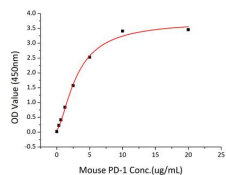
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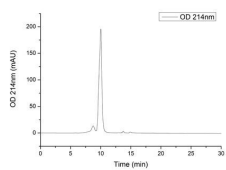
Validation Data



Recombinant Mouse B7-H1/PD-L1/CD274 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Mouse PD-L1 at 10 µg/mL (100µL/well) can bind Recombinant Mouse PD-1 with a linear range of 1.5-5 µg/mL.



The purity of Mouse PD-L1/B7-H1 Protein (Cat.RP01158) was greater than 90% as determined by SEC-HPLC.