

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

Catalog No.: RP01158 Recombinant 1 Publications

Sequence Information

Species **Gene ID** **Swiss Prot**
 Mouse 60533 Q9EP73

Tags

C-His

Synonyms

PD-; B7h1; Pdl1; Pdcld1; Pdcld1l1;
 Pdcld1lg1; A530045L16Rik;CD274

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.

Product Information

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

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

Endotoxin

< 0.1 EU/ μ g of the protein by LAL
 method.

Formulation

Lyophilized from a 0.22 μ m 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.

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 \times His tag at the C-terminus.

Bio-Activity

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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

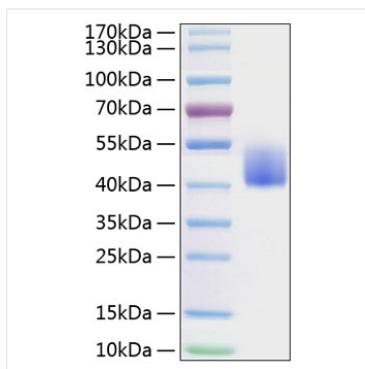
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

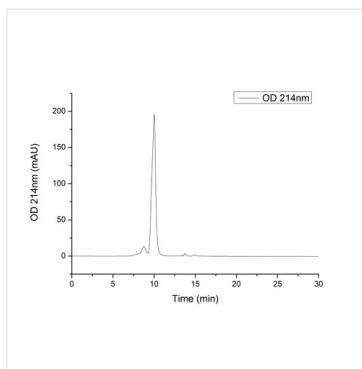
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	cn.market@abclonal.com.cn



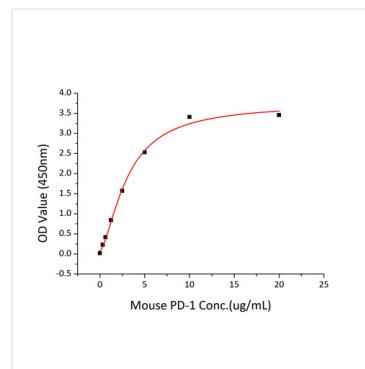
Validation Data



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



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



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