

PD-L1 Protein, Mouse, Recombinant (hFc & Avi), Biotinylated

General Information

Synonyms: Pdl1;B7h1;A530045L16Rik;Pdc1lg1;CD274 molecule;Pdc1l1

Protein Construction: A DNA sequence encoding the mouse CD274 (NP_068693.1) (Met1-Thr238) was expressed with C-terminal Fc region of human IgG1 tag followed by an AVI tag. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed. Predicted N terminal: Phe 19

Species: Mouse

Expression Host: HEK293 Cells

Accession: Q3U472

Molecular Weight: 53.3 kDa (predicted)

QC Testing

Biological Activity: Immobilized Recombinant Mouse PD1 / PDCD1 / CD279 Protein (Fc Tag) at 2µg/mL (100µL/well) can bind Recombinant Mouse PD-L1/B7-H1/CD274 Protein(Fc&AVI Tag), Biotinylated , with a linear range of 0.16-2.5 ug/mL (QC tested).

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/µg of the protein as determined by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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) and has been demonstrated to play a role in the regulation of

immune responses and peripheral tolerance. PD-L1/B7-H1 is a member of the growing B7 family of immune molecules and this protein contains one V-like and one C-like Ig domain within the extracellular domain, and together with PD-L2, are two ligands for PD1 which belongs to the CD28/CTLA4 family expressed on activated lymphoid cells. By binding to PD1 on activated T-cells and B-cells, PD-L1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression. Accordingly, it leads to growth of immunogenic tumor growth by increasing apoptosis of antigen specific T cells and may contribute to immune evasion by cancers. PD-L1 thus is regarded as promising therapeutic target for human autoimmune disease and malignant cancers.

Cancer Immunotherapy
Co-inhibitory Immune Checkpoint Targets
Immune Checkpoint
Immune Checkpoint Blockade: Blocking Antibody
Immune Checkpoint Blockade: PD-L1 / B7-H1 / C
Immune Checkpoint Detection: Antibodies
Immune Checkpoint Detection: ELISA
Antibodies
Immune Checkpoint Detection: FCM
Antibodies
Immune Checkpoint Detection: ICC
Antibodies
Immune Checkpoint Detection: IHC
Antibodies
Immune Checkpoint Detection: WB
Antibodies
Immune Checkpoint Proteins
Immune Checkpoint Targets
Immunotherapy
PD-L1 / B7-H1 / CD274
Immune Checkpoint Prote
Targeted Therapy

Reference

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