

Recombinant Human PD-L1/B7-H1/CD274 Protein (Fc Tag)

Catalog Number: PKSH031887

Note: Centrifuge before opening to ensure complete recovery of vial contents.

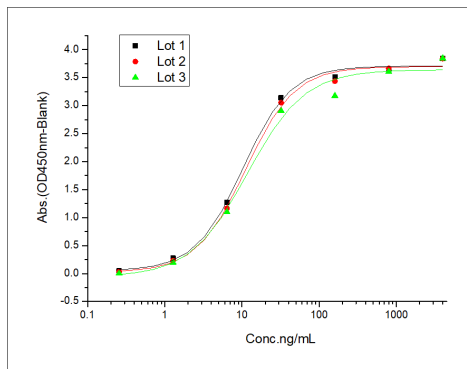
Description

| | |
|----------------------|---|
| Species | Human |
| Source | HEK293 Cells-derived Human PD-L1/B7-H1/CD274 protein Met 1-Thr 239, with an C-terminal hFc |
| Calculated MW | 52.0 kDa |
| Observed MW | 65-70 kDa |
| Accession | NP_054862.1 |
| Bio-activity | Immobilized human PD-1 at 10 µg/ml (100 µl/well) can bind recombinant human B7-H1 / PD-L1 / Fc chimera with a linear range of 0.02-0.4 µg/ml. |

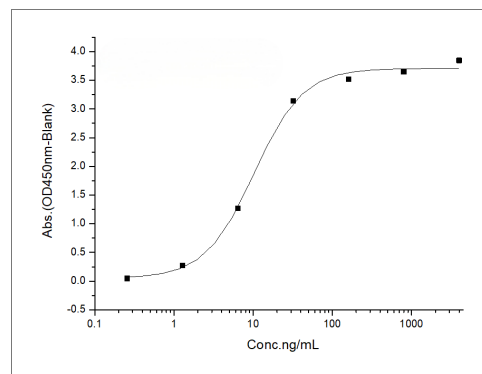
Properties

| | |
|-----------------------|---|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



Lot-to-Lot Consistency



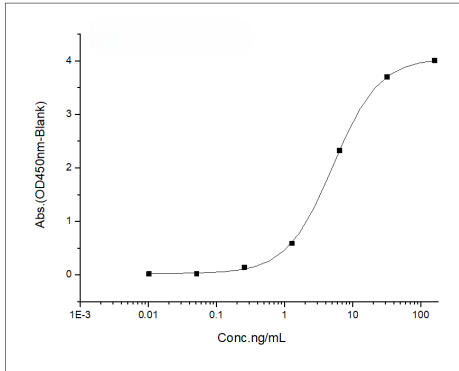
Immobilized Recombinant Human PD1 / PDCD1 Protein (His Tag) (Cat: PKSH031642) at 2 µg/mL (100 µL/well) can bind Recombinant Human PD-L1 / B7-H1 / CD274 Protein (Fc Tag) (Cat: PKSH031887), the EC₅₀ is 220-660 ng/mL.

For Research Use Only

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Immobilized Recombinant Human PD-L1/B7-H1 Protein (ECD, hFc Tag), HPLC-verified (Cat: PKSH031887) at 5 µg/mL (100 µL/well) can bind Atezolizumab derived Anti-PDL1 Antibody, Human IgG1, the EC₅₀ is 2.5-7.5 ng/mL.

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.

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