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### 21-1001-B: Human PD-L1 Recombinant Fc fusion Protein (Active) Biotin conjugated

Application :Functional AssayAlternative Name :B7 homolog 1, CD274, B7H1, PDCD1L1, PDCD1LG1, PDL1

## Description

**Host: CHO-K1 celline.** PD-L1 (CD274/B7-H1) is a critical membrane-bound costimulatory molecule belongs to the B7 superfamily that inhibits immune responses through its receptor, PD-1 and PD-L1 play a key role in the pathogenesis of inflammatory diseases (programmed death 1). It is widely expressed in the mononuclear phagocyte system (MPS), may costimulate T cells and regulates inflammatory responses. PD-L1 exerts inflammation regulatory functions via a negative costimulatory effect on T cell functions to inhibit cytokine secretion, facilitate apoptosis of activated T cells and induce T cell anergy. Aberrant expression and dysregulation of CD274 have been reported during bacterial infection, inflammation and in numerous autoimmune diseases.

#### **Product Info**

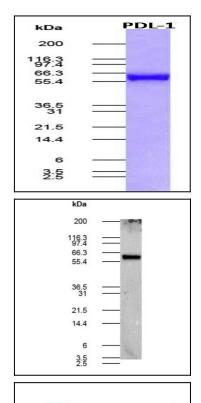
Amount :	100 µg
Purification :	99% Purity SDS -PAGE and HPLC.
Content :	Lyophilized sterile PBS, 5% trehalose and 0.01% tween 80 are added as protectant before lyophilization.
Storage condition :	Store it under sterile conditions at -4°C. It is recommended that the protein be aliquoted for optimal storage.
Amino Acid :	Human PD-L1 (ECD): MRIFAVFIFMTYWHLLNAFTVTVPKDLYVVEYGSNMTIECKFPV EKQLDLAALIVYWEMEDKNIIQFVHGEEDLKVQHSSYRQRARLL KDQLSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITVKVNA PYNKINQRILVVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLS GKTTTTNSKREEKLFNVTSTLRINTTTNEIFYCTFRRLDPEENH TAELVIPELPLAHPPNER

#### **Application Note**

Functional assay: Measured by its binding ability in a functional FLOW . Binding assay was tested using CHO-K1/PD-1 (cat no. 14-500ACL).

Endotoxin: < 1.0 EU per  $\mu g$  of the protein as determined by the LAL method

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8

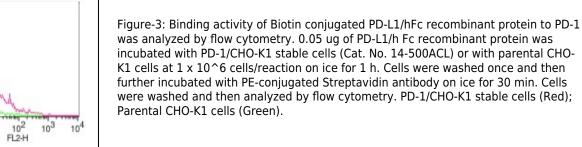
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0 100

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Figure-1: Human PD-L1/hFc recombinant protein. 0.5 ug protein was run on a 4-20% SDS-PAGE gel followed by Coomassie blue staining.

Figure-2: Western blot analysis of PDL-1/hFc recombinant protein (0.5ug) using antihuman PD-L1 antibody (Cat. No. 10-7599).



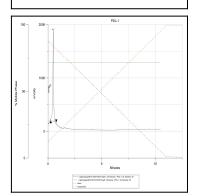


Figure-4: HPLC analysis of PD-L1/hFc recombinant protein.