

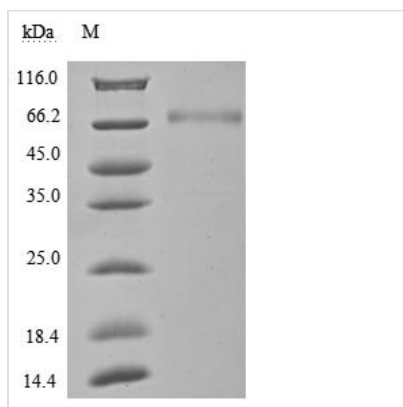


# Recombinant Human Programmed cell death 1 ligand 1 (CD274), partial (Active)

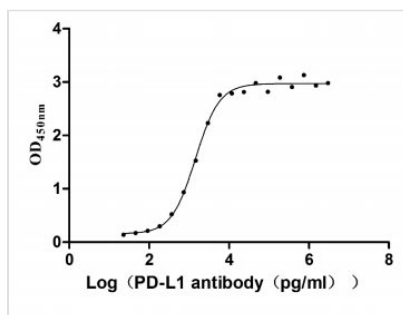
<b>Product Code</b>	CSB-MP878942HU1
<b>Relevance</b>	Plays a critical role in induction and maintenance of immune tolerance to self (PubMed:11015443, PubMed:28813417, PubMed:28813410). As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed:11015443, PubMed:28813417, PubMed:28813410). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed:10581077) The PDCD1-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and escape destruction by the immune system, thereby facilitating tumor survival (PubMed:28813417, PubMed:28813410). The interaction with PDCD1/PD-1 inhibits cytotoxic T lymphocytes (CTLs) effector function (By similarity). The blockage of the PDCD1-mediated pathway results in the reversal of the exhausted T-cell phenotype and the normalization of the anti-tumor response, providing a rationale for cancer immunotherapy (By similarity).
<b>Abbreviation</b>	Recombinant Human CD274 protein, partial (Active)
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9NZQ7
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered PBS, 6% Trehalose, pH 7.4
<b>Product Type</b>	Others
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized PD-L1 at 2 µg/ml can bind Anti- PD-L1 mouse monoclonal antibody(CSB-MA878942A1m,antigen from E.coli), the EC50 of human PD-L1 protein is 1.252-1.653 ng/mL.
<b>Purity</b>	≥ 95% as determined by SDS-PAGE. ≥ 90% as determined by SEC-HPLC.
<b>Sequence</b>	FTVTVPKDLVVEYGSNMTIECKFPVEKQLDLAALIVWEMEDKNIIQFVHGEE DLKVQHSSYRQRARLLKDKLSLGNALQITDVKLQDAGVYRCMISYGGADYK RITVKVNAPYNKINQRILVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGK TTTTNSKREEKLFNVTSTLRINTTTNEIFYCTFRRLDPEENHTAELVIPELPLAHP PNER
<b>Research Area</b>	Cancer
<b>Source</b>	Mammalian cell



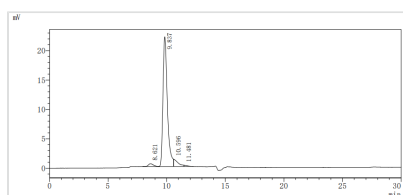
<b>Target Names</b>	CD274
<b>Expression Region</b>	19-238aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	C-terminal hFc1-tagged
<b>Mol. Weight</b>	52.7 kDa
<b>Protein Length</b>	Partial

**Image**


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



**Activity**  
 Measured by its binding ability in a functional ELISA. Immobilized PD-L1 at 2 µg/ml can bind Anti- PD-L1 mouse monoclonal antibody(CSB-MA878942A1m,antigen from E.coli), the EC<sub>50</sub> of human PD-L1 protein is 1.252-1.653 ng/mL.



The purity of CD274 was greater than 90% as determined by SEC-HPLC.

<b>Endotoxin</b>	Less than 1.0 EU/ug as determined by LAL method.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.