

## PDCD1LG2

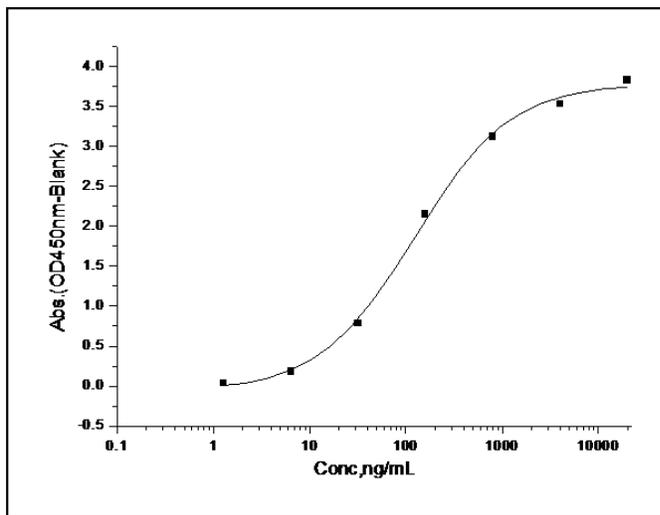
### Recombinant Human PD-L2 / CD273 (His Tag)

<b>Catalog No.</b>	CRH443A-His CRH443B-His	<b>Quantity:</b>	100 µg 200 µg
<b>Alternate Names:</b>	Programmed cell death 1 ligand 2, PD-1 ligand 2, PD-L2, PDCD1 ligand 2, Programmed death ligand 2, Butyrophilin B7-DC, B7-DC, CD273		
<b>Description:</b>	Programmed death ligand 2 (PD-L2) is a member of the B7 family of proteins including B7-1, B7-2, B7-H2, B7-H1 (PD-L1), and B7-H3. PD-L2 is a type I membrane protein and structurally consists of an extracellular region containing one V-like and one C-like Ig domain, a transmembrane region, and a short cytoplasmic domain. PD-L2 is expressed on antigen presenting cells, placental endothelium and medullary thymic epithelial cells, and can be induced by LPS in B cells, INF- $\gamma$ ; in monocytes, or LPS plus INF- $\gamma$ ; in dendritic cells. The CD28 and B7 protein families are critical regulators of immune responses. PD-L2 and PD-L1 are two ligands for PD-1, member of the CD28/CTLA4 family expressed on activated lymphoid cells, and thus provide signals for regulating T cell activation and immune tolerance. The interaction of B7-DC/PD-1 exhibited a 2-6-fold higher affinity compared with the interaction of B7-H1/PD-1.		
<b>UniProt ID:</b>	Q9BQ51		
<b>Accession Number:</b>	NP_079515.2		
<b>Protein Construction:</b>	A DNA sequence encoding the extracellular domain (Met 1-Pro 219) of human PD-L2 was expressed with a C-terminal polyhistidine tag.		
<b>Source:</b>	HEK293 Cells		
<b>Molecular Weight:</b>	The rhPD-L2 consists of 211 amino acids and predicts a molecular mass of 24 kDa. As a result of glycosylation, the apparent molecular mass of rh PD-L2 is ~40-45 kDa in SDS-PAGE under reducing conditions.		
<b>Formulation:</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
<b>Purity:</b>	> 98 % as determined by SDS-PAGE.		
<b>Endotoxin Level:</b>	< 1.0 EU per µg protein as determined by the LAL method.		
<b>Biological Activity:</b>	Measured by its binding ability in a functional ELISA . Immobilized recombinant human PD-L2 at 1 µg/ml (100 µl/well) can bind recombinant human PD1 with a linear range of 7.8-1000 ng/ml .		
<b>Predicted N-terminal:</b>	Leu 20		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution.		

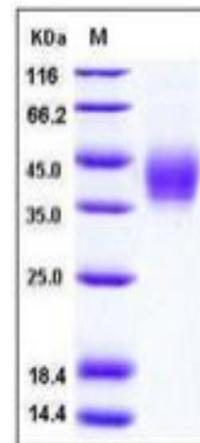


**Storage & Stability:** Stable for up to 1 year from date of receipt at -20°C to -80°C  
After reconstitution, store working aliquots at -20°C to -80°C.  
**Avoid repeated freeze-thaw cycles.**

In a functional ELISA immobilized recombinant human PD-L2 at 1 µg/ml (100 µl/well) can bind recombinant human PD1 with a linear range of 7.8-1000 ng/ml.



SDS-PAGE



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