



Recombinant Protein Technical Manual  
Recombinant Human B7-DC/PD-L2/CD273 Protein  
(His Tag)(Active)  
RPES4689

### Product Data:

**Product SKU:** RPES4689

**Size:** 100µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** NP\_079515.2

### Protein Information:

**Molecular Mass:** 24 kDa

**AP Molecular Mass:** 40-45 kDa

**Tag:** C-His

**Bio-activity:** 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 7.8000 ng/ml.

**Purity:** > 98 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** 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

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Functional ELISA

**Synonyms:** B7-DC;B7DC;ba574F11.2;Btdc;CD273;PD-L2;PDCD1L2;PDL2

## Immunogen Information:

**Sequence:** Met 1-Pro 219

## Background:

Programmed death ligand 2 (PD-L2), also referred to as B7-DC and CD273, is a member of the B7 family of proteins including B7, 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, 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 exhibited a 2-6-fold higher affinity compared with the interaction of B7-H1/PD.

Immune Checkpoint  
Immune Checkpoint Detection: Antibodies  
Immune Checkpoint Detection: ELISA  
Antibodies  
Immune Checkpoint Detection: FCM  
Antibodies  
Immune Checkpoint Detection: WB  
Antibodies  
Immune Checkpoint Proteins  
Immune Checkpoint Targets  
Co-inhibitory  
Immune Checkpoint Targets  
Immunotherapy  
Cancer Immunotherapy  
Targeted Therapy