



Recombinant Protein Technical Manual

Recombinant Mouse B7-DC/PD-L2/CD273 Protein (His Tag)(Active) RPES1665

Product Data:

Product SKU: RPES1665

Size: 100µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: Q9WUL5

Protein Information:

Molecular Mass: 24 kDa

AP Molecular Mass: 35-45 kDa

Tag: C-His

Bio-activity: 1. Measured by its binding ability in a functional ELISA. 2. Immobilized mouse PD-L2-his at 10 µg/mL (100 µl/well) can bind mouse PD1-Fc. The EC50 of mouse PD1-Fc is 1.63 µg/mL.

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein 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: Programmed cell death 1 ligand 2;Pdc1lg2;PD ligand 2;PD-L2; PDCD1 ligand 2; B7-DC; CD273;Btdc;F730015O22Rik;PD-L2

Immunogen Information:

Sequence: Met 1-Arg 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- γ ; in monocytes, or LPS plus INF- γ ; 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.