



# Recombinant Protein Technical Manual

## Recombinant Mouse PD-L1/B7-H1/CD274 Protein (Fc Tag) RPES0266

### Product Data:

**Product SKU:** RPES0266

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** Q9EP73

### Protein Information:

**Molecular Mass:** 51.7 kDa

**AP Molecular Mass:** 72-90 kDa

**Tag:** C-Fc

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

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

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

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

**Application:**

**Synonyms:** Programmed cell death 1 ligand 1Cd274; programmed cell death 1 ligand 1;PD-L1;PDCD1 ligand 1;programmed death ligand 1;B7 homolog 1;B7-H1;CD274;B7h1;Pcdcd1l1;Pcdcd1lg1;Pdl1

## Immunogen Information:

**Sequence:** Phe19-Thr238

## Background:

Mouse Programmed cell death 1 ligand 1 (Cd274,PD-L1), is a member of the growing B7 family of immune proteins. It involved in the costimulatory signal essential for T-cell proliferation and IFNG production in a PDCD1-independent manner. Interaction with PDCD1 inhibits T-cell proliferation by blocking cell cycle progression and cytokine production. B7-H1 has been identified as one of two ligands for programmed death1 (PD1), a member of the CD28 family of immunoreceptors. B7-H1 is constitutively expressed in several organs such as heart, skeletal muscle B7-H1 expression is upregulated in a small fraction of activated T and B cells and a much larger fraction of activated monocytes. The costimulatory function of B7-H1 is critical for enhancing maturation and differentiation of T-cells in lymphoid organs. B7-H1 expression is also induced in dendritic cells and keratinocytes after IFN gamma stimulation. Interaction of B7-H1 with PD1 results in inhibition of TCR-mediated proliferation and cytokine production. The B7-H1:PD1 pathway is involved in the negative regulation of some immune responses and may play an important role in the regulation of peripheral tolerance.