

Recombinant Mouse PD-L1/B7-H1/CD274 Protein (His Tag)

Catalog No. PKSM041248

Note: Centrifuge before opening to ensure complete recovery of vial contents.

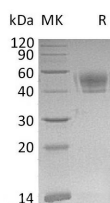
Description

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;Pdc1l1l1;Pdc1lg1;Pdl1
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Phe19-Thr238
Accession	Q9EP73
Calculated Molecular Weight	25.6 kDa
Observed molecular weight	39-58 kDa
Tag	C-His
Bioactivity	Immobilized Anti-Human PDL1 mAb-Fc at 2µg/ml (100 µl/well)can bind Mouse PD-L1-His. The ED50 of Mouse PD-L1-His is 23.35 ng/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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Background

Mouse Programmed cell death 1 ligand 1 (Cd274,PD-L1), is a member of the growing B7 family of immune proteins. It is involved in the costimulatory signal essential for T-cell proliferation and IFN γ 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 γ 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.

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