

Human CellExp PD-L1 /CD274 /B7-H1, human recombinant protein
PD-L1, CD274, B7-H1, PDCD1L1, PDCD1LG1
Catalog # PBV11050r**Specification****Human CellExp PD-L1 /CD274 /B7-H1, human recombinant protein - Product info**Primary Accession
Calculated MW[O9NZQ7](#)

This protein is fused with polyhistidine tag at the C-terminus, has a calculated MW of 26 kDa. The predicted N-terminus is Phe 19. DTT-reduced Protein migrates as 35-42 kDa due to glycosylation. KDa

Human CellExp PD-L1 /CD274 /B7-H1, human recombinant protein - Additional InfoGene ID **29126**
Gene Symbol **CD274****Other Names**

PD-L1, CD274, B7-H1, PDCD1L1, PDCD1LG1

Gene Source **Human**
Source **HEK293 cells**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **N/A;**
Recombinant **Yes**
Results

Measured by its binding ability in a functional ELISA. Immobilized rh PD-L1 / B7-H1 at 2 µg/ml (100 µl/well) can bind rhPD1/PDCD1 Fc Chimera with a linear range of 1-10 µg/ml. Measured by its ability to inhibit antiCD3 antibody induced IL2 secretion in human T lymphocytes. The ED50 for this effect is typically 0.6-5 µg/ml.

Target/Specificity
PD-L1 /CD274 /B7-H1**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized**Storage**

-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose is added as protectants before lyophilization.

Human CellExp PD-L1 /CD274 /B7-H1, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp PD-L1 /CD274 /B7-H1, human recombinant protein - Images**Human CellExp PD-L1 /CD274 /B7-H1, human recombinant protein - Background**

Programmed cell death 1 ligand 1 (PD-L1) is also known as cluster of differentiation (CD274) or B7 homolog 1 (B7-H1), is a member of the growing B7 family of immune molecules and is involved in the regulation of cellular and humoral immune responses. B7-H1 is a cell surface immunoglobulin superfamily with two Ig-like domains within the extracellular region and a short cytoplasmic domain. PD-L1 is highly expressed in the heart, skeletal muscle, placenta and lung and weakly expressed in the thymus, spleen, kidney and liver. PD-L1 is expressed on activated T-cells, B-cells, dendritic cells, keratinocytes and monocytes. PD-L1 is up-regulated on T- and B-cells, dendritic cells, keratinocytes and monocytes after LPS and IFNG activation and up-regulated in B-cells activated by surface Ig cross-linking. PD-L1 involve in the costimulatory signal, essential for T-cell proliferation and production of IL10 and IFNG, in an IL2-dependent and a PDCD1-independent manner.

Human CellExp PD-L1 /CD274 /B7-H1, human recombinant protein - References

Dong H.,et al.Nat. Med. 5:1365-1369(1999).
Freeman G.J.,et al.J. Exp. Med. 192:1027-1034(2000).
He X.-H.,et al.Acta Pharmacol. Sin. 26:462-468(2005).
Chi X.-Y.,et al.Submitted (NOV-2005) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).