For Research Use Only

Recombinant Mouse PD-L1/CD274 protein (hFc Tag)

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Catalog Number: Eg0985

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
hFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse PD-L1 protein Phe19-His239 (Accession# Q9EP73) with a human IgG1 Fc tag at the C-terminus.

GeneID:
60533

Accession:
Q9EP73

Predicted Molecular Mass:
51.7 kDa

SDS-PAGE:
65-80 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

PD-L1 (programmed cell death ligand 1, also known as CD274 or B7-H1) is a 290 aa type I transmembrane protein. PD-L1 is expressed constitutively on T cells, B cells, DCs, macrophages, mesenchymal stem cells and cultured bone marrow-derived mast cells. In addition, PD-L1 is also expressed on many nonhematopoietic cell types, including vascular endothelial cells, epithelial cells, muscle cells, hepatocytes, pancreatic islet cells, astrocytes in the brain, placental syncytiotrophoblasts, and cells in cornea, iris-ciliary body and retina of eye. PD-L1 is frequently upregulated in a wide variety of solid tumors, including melanoma, ovarian, lung, glioblastoma, breast, and pancreatic cancers. PD-L1 and PD-L2 are two ligands of PD-1. Engagement of PD-1 by PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation, cytokine production, and cytolytic function. It is critical for the regulation of T cell function during tolerance, autoimmunity and infection. Besides the membrane-bound form, PD-L1 can also exist as a soluble form (sPD-L1) generated either by proteolytic cleavage of membrane-bound form or by translation of alternative spliced mRNA.

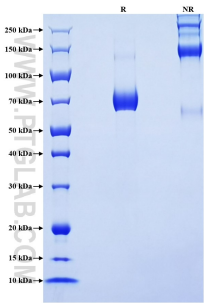
References

1. Arlene H Sharpe, et al. (2007) Nat Immunol. 8(3):239-45.
2. Mary E Keir, et al. (2008) Annu Rev Immunol. 26:677-704.
3. James L Riley. (2009) Immunol Rev. 229(1):114-25.
4. Masahiro Takeuchi, et al. (2018) Immunol Lett. 196:155-160.

Synonyms

Cd274, PD-L1, B7 H1, PD L1, Pdcd1l1

Selected Validation Data



Purity of Recombinant Mouse PD-L1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.