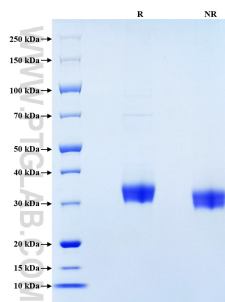


# Recombinant Human PD-L1/CD274 protein (His Tag)

Catalog Number: Eg1114

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/ µg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Human PD-L1 protein Phe19-Arg238 (Accession# Q9NZQ7-1) with a His tag at the C-terminus.</p> <p><b>GeneID:</b> 29126</p> <p><b>Accession:</b> Q9NZQ7-1</p> <p><b>Predicted Molecular Mass:</b> 26 kDa</p> <p><b>SDS-PAGE:</b> 30-36 kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> <li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li> <li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li> </ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>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.</p>		
References	<ol style="list-style-type: none"> <li>1. Arlene H Sharpe, et al. (2007) Nat Immunol. 8(3):239-45.</li> <li>2. Mary E Keir, et al. (2008) Annu Rev Immunol. 26:677-704.</li> <li>3. James L Riley. (2009) Immunol Rev. 229(1):114-25.</li> <li>4. Masahiro Takeuchi, et al. (2018) Immunol Lett. 196:155-160.</li> </ol>		
Synonyms	CD274, PD-L1, B7 H1, B7-H1, hPD-L1		

## Selected Validation Data



Purity of Recombinant Human 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.

For technical support and original validation data for this product please contact

T: 027-87531629

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.