

## PD-L2 Active Protein | PDCD1LG2 active protein

PD-L2 Protein, Mouse, Recombinant (His Tag)

CATALOG #  
**AAA258205**

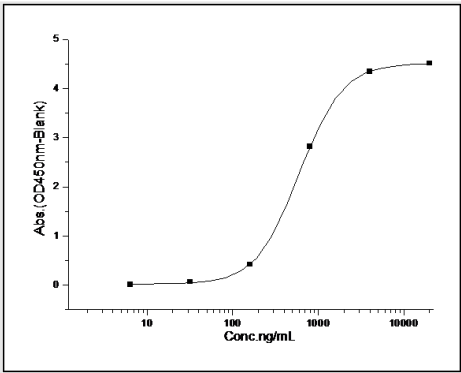
HOST  
**HEK293 Cells**

### PRODUCT SYNONYMS

PD-L2; PD-L2 Protein; Mouse; Recombinant (His Tag); Mouse B7-DC/PD-L2/CD273 Protein (His Tag); B7-DC Protein; Btdc Protein; F730015O22Rik Protein; programmed cell death 1 ligand 2; PDCD1LG2 active protein

### PRODUCT SPECIFICATIONS

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Host</b>                    | HEK293 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity/Purification</b>     | >95% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Form/Format</b>             | Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.                                                                                                                                                                                                                                                                                               |
| <b>Sequence</b>                | Met1-Arg21 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>                 | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Activity</b>                | <ol style="list-style-type: none"> <li>1. Measured by its binding ability in a functional ELISA.</li> <li>2. Immobilized mouse PD-L2-his at 10ug/mL (100uL/well) can bind mouse PD1-Fc. The EC50 of mouse PD1-Fc is 1.63ug/mL.</li> </ol>                                                                                                                                                                                                                                                                        |
| <b>Endotoxin</b>               | <1.0EU per ug of the protein as determined by the LAL method                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Predicted N Terminal</b>    | Leu 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Tag</b>                     | C-His                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Construction</b>    | A DNA sequence encoding the extracellular domain of mouse PDCD1LG2 (Q9WUL5)(Met 1-Arg 219) was expressed, with a C-terminal polyhistidine tag.                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Reconstitution</b>          | A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Preparation and Storage</b> | <p>Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <p>In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.</p> |



SDS-PAGE

**Application Data**  
Measured by its binding ability in a functional ELISA. Immobilized mouse PD-L2-his at 10 ug/mL (100 ul/well) can bind mouse PD1-Fc. The EC50 of mouse PD1-Fc is 1.63 ug/mL.

ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for PDCD1LG2 active protein | Background: Programmed death ligand 2 (PD-L2), also referred to as B7-DC and CD273, is a member of the B7 family of proteins including B7-1, B7-2, B7-H2, B7-H1 (PD-L1), and B7-H3. PD-L2 is a type I membrane protein and structurally consists of an extracellular region containing one V-like and one C-like Ig domain, a transmembrane region, and a short cytoplasmic domain. PD-L2 is expressed on antigen presenting cells, placental endothelium and medullary thymic epithelial cells, and can be induced by LPS in B cells, INF-? in monocytes, or LPS plus IFN-? in dendritic cells. The CD28 and B7 protein families are critical regulators of immune responses. PD-L2 and PD-L1 are two ligands for PD-1, member of the CD28/CTLA4 family expressed on activated lymphoid cells, and thus provide signals for regulating T cell activation and immune tolerance. The interaction of B7-DC/PD-1 exhibited a 2-6-fold higher affinity compared with the interaction of B7-H1/PD-1. |
| Product Categories/Family for PDCD1LG2 active protein   | Cancer Drug Targets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| References                                              | Latchman Y, et al. (2001) PD-L2 is a second ligand for PD-1 and inhibits T cell activation. Nat Immunol. 2: 261-8.Carreno BM, et al. (2005) Therapeutic opportunities in the B7/CD28 family of ligands and receptors. Curr Opin Pharmacol. 5(4): 424-30.Radhakrishnan S, et al. (2007) B7-DC/PD-L2 cross-linking induces NF-kappaB-dependent protection of dendritic cells from cell death. J Immunol. 178(3): 1426-32.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 10946740                                                                                                                                  |
| NCBI GeneID                      | 58205                                                                                                                                     |
| NCBI Accession #                 | NP_067371.1                                                                                                                               |
| NCBI GenBank Nucleotide #        | NM_021396.2                                                                                                                               |
| UniProt Accession #              | Q9WUL5                                                                                                                                    |
| Molecular Weight                 | 27,820 Da                                                                                                                                 |
| NCBI Official Full Name          | programmed cell death 1 ligand 2                                                                                                          |
| NCBI Official Synonym Full Names | programmed cell death 1 ligand 2                                                                                                          |
| NCBI Official Symbol             | Pdcd1lg2                                                                                                                                  |
| NCBI Official Synonym Symbols    | Btdc; B7-DC; PD-L2; F730015O22Rik                                                                                                         |
| NCBI Protein Information         | programmed cell death 1 ligand 2; PD-1 ligand 2; PDCD1 ligand 2; butyrophilin B7-DC; butyrophilin-like protein; programmed death ligand 2 |
| UniProt Protein Name             | Programmed cell death 1 ligand 2                                                                                                          |

|                            |                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------|
| UniProt Gene Name          | Pdcd1lg2                                                                                        |
| UniProt Synonym Gene Names | B7dc; Btdc; Cd273; Pdl2; PD-1 ligand 2; PD-L2; PDCD1 ligand 2; Programmed death ligand 2; B7-DC |
| UniProt Entry Name         | PD1L2_MOUSE                                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-pdcd1lg2-active-protein/pd-l2/258205>