

PRODUCT INFORMATION

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| Target | PDL1 |
| Synonyms | PD-L1;CD274;B7-H1;PDCD1L1;PDCD1LG1 |
| Description | Recombinant human PD-L1 protein with C-terminal mouse Fc and 6×His tag |
| Delivery | In Stock |
| Uniprot ID | Q9NZQ7 |
| Expression Host | HEK293 |
| Tag | C-Mouse Fc and 6×His Tag |
| Molecular Characterization | PD-L1(Phe19-Arg238) mFc(Pro99-Lys330) 6×His tag |
| Molecular Weight | The protein has a predicted molecular mass of 52.3 kDa after removal of the signal peptide. |
| Purity | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining. |
| Formulation & Reconstitution | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. |
| Storage&Shipping | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| Background | This gene encodes an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The encoded protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Expression of this gene in tumor cells is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma. Alternative splicing results in multiple transcript variants. |
| Usage | Research use only |
| Conjugate | Unconjugated |



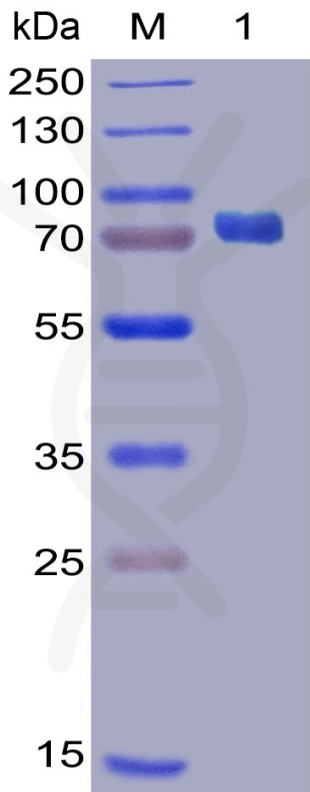


Figure 1. Human PD-L1 Protein, mFc-His Tag on SDS-PAGE under reducing condition.

Human PDL1, mFc-His Tagged protein ELISA
0.2 µg of Human PDL1, mFc-His Tagged protein per well

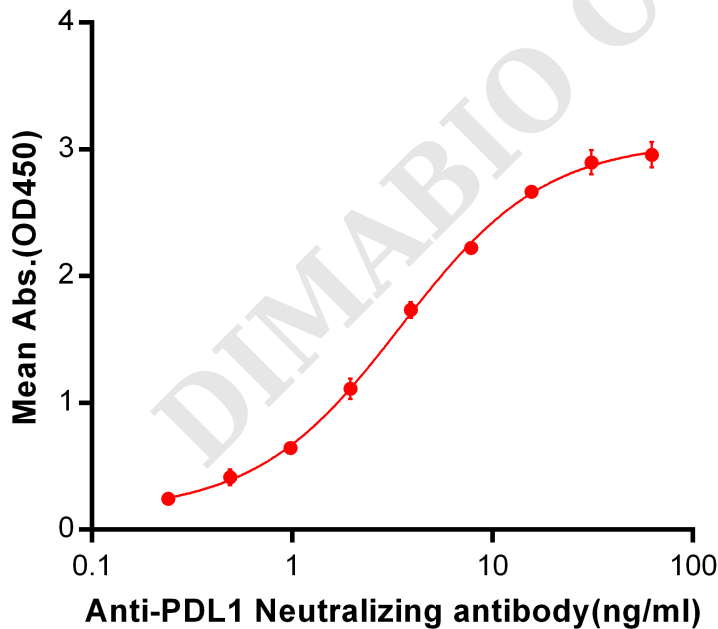


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human PD-L1, mFc-His tagged protein PME100023 can bind Anti-PDL1 Neutralizing antibody BME100009 in a linear range of 0.24-7.81 ng/ml.



Human PD-L1, mFc-His Tagged protein ELISA
0.2 µg of PD1, hFc-His Tagged protein per well

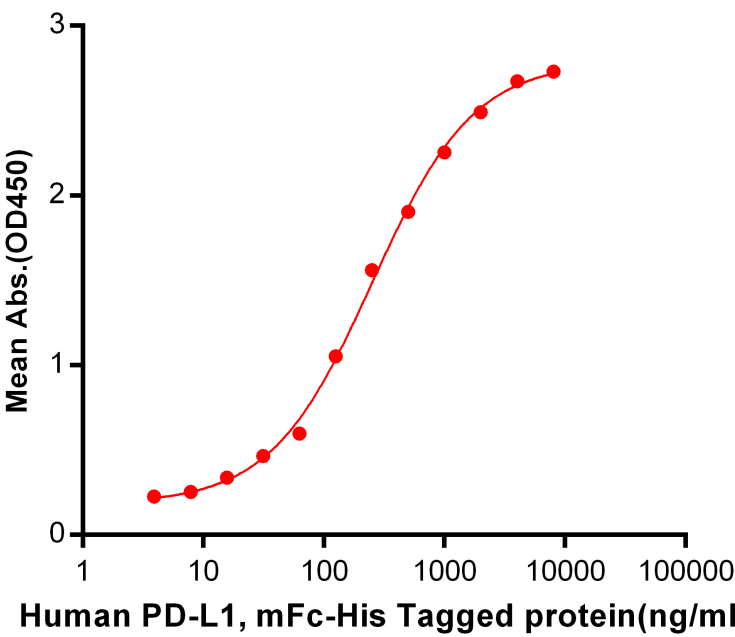


Figure 3. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human PD1, hFc-His tagged protein PME100462 can bind Human PD1, mFc-His tagged protein (PME100023) in a linear range of 62.5-251.1 ng/ml.

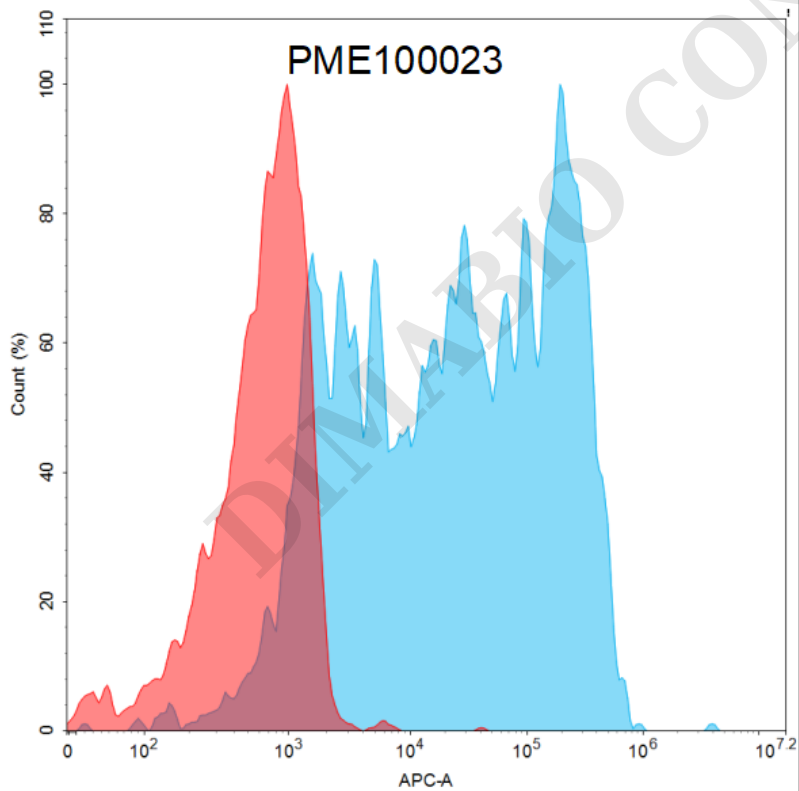


Figure 4. Flow cytometry analysis with 15 µg/mL Human PD-L1 Protein, mFc-His tag (PME100023) on HEK293 cells transfected with human PD1 (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).



Human PD-L1, mFc-His tagged Protein ELISA

0.2 µg of Human PD-L1, mFc-His tagged protein per well

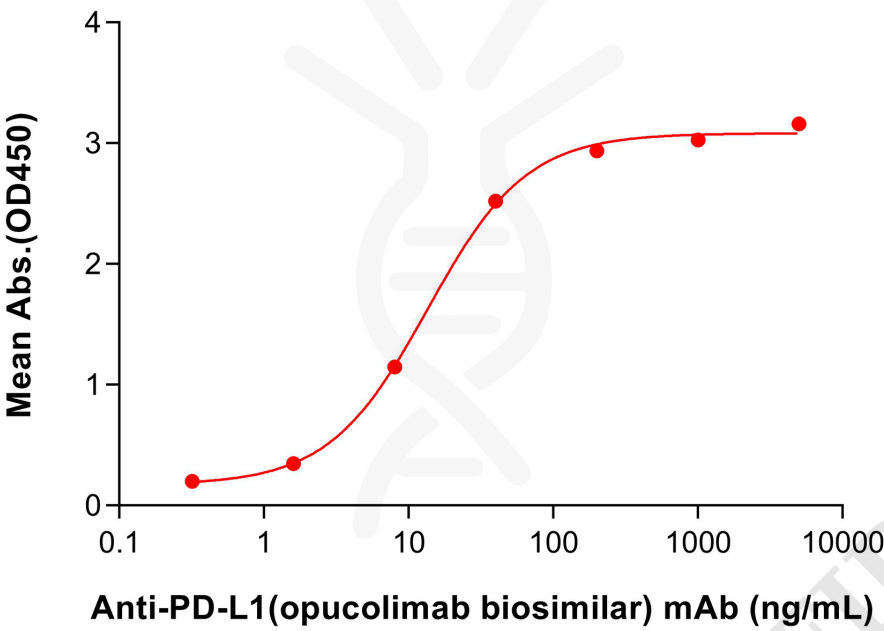


Figure 5. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human PD-L1 Protein, mFc-His tag(PME100023) can bind Anti-PD-L1 (SGNPDL 1V biosimilar) mAb (BME100287) in a linear range of 1.6-8.0ng/mL.

Human PD-L1, mFc-His tagged Protein ELISA

0.2 µg of Human PD-L1, mFc-His tagged protein per well

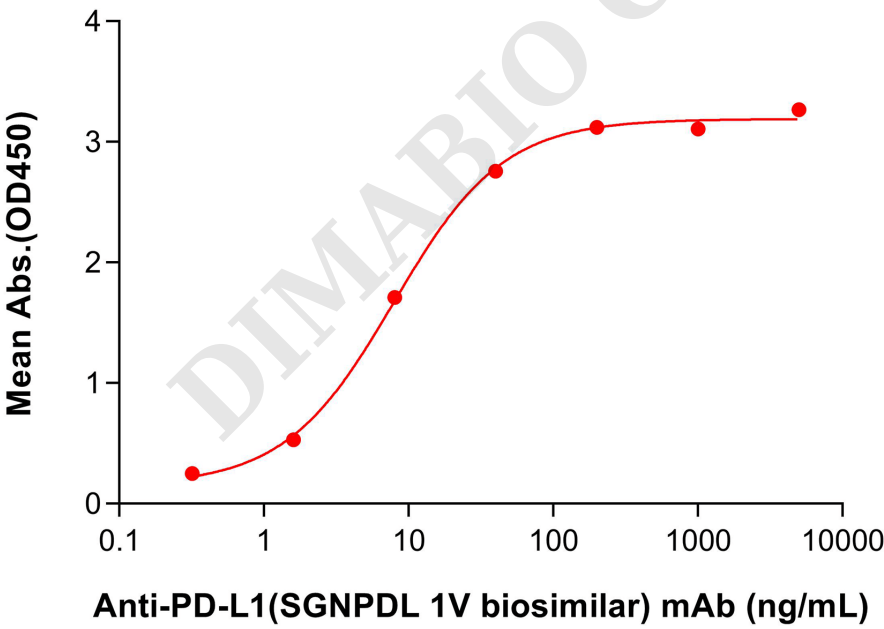


Figure 6. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human PD-L1 Protein, mFc-His tag(PME100023) can bind Anti-PD-L1 (opucolimab biosimilar) mAb (BME100288) in a linear range of 8-40ng/mL.

