

45-1075: Mouse Monoclonal Antibody to Human PD-L1 (Clone : PDL1.D1)

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| Clonality : | Monoclonal |
| Clone Name : | PDL1.D1 |
| Application : | ELISA |
| Gene : | PDCD1 |
| Gene ID : | 5133 |
| Uniprot ID : | Q15116 |
| Format : | Purified |
| Alternative Name : | Programmed cell death protein 1, Protein PD-1, hPD-1, CD279 |
| Isotype : | Mouse IgG1,kappa |
| Immunogen Information : | Recombinant human PD-L1-Fc |

Description

Programmed cell death 1 ligand 1 is one of the two ligands of PD-1. PD-L1 expresses on macrophages, T cells, B cells, NK cells, DCs and some cancer cell surface. Binding of PD-1 with PD-L1 could result in down-regulation of the immune system by inhibiting the T-cell activation process. Thus, PD-L1 is an important immune checkpoint and popular target for therapeutic antibodies against many cancers. Anti-Human PD-L1 Antibody (PDL1.D1), mAb, Mouse is produced from the hybridoma resulting from fusion of SP2/0 myeloma and B-lymphocytes obtained from mouse immunized with recombinant human PD-L1-Fc .

Product Info

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| Amount : | 40 µg |
| Purification : | Protein A chromatography |
| Content : | 0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide. |
| Storage condition : | The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles. |

Application Note

ELISA detection: 0.01-0.1 µg/ml
ELISA blocking: 10-15 µg/ml
Flow cytometry: 5-7 µg/ml
Blockade of Receptor-ligand Interaction in Flow cytometry: 5-7 µg/ml

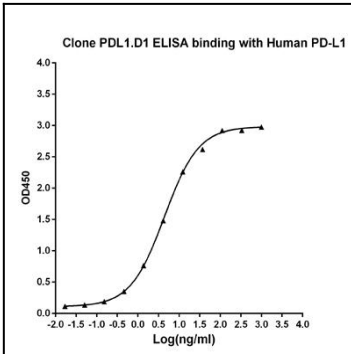


Figure-1 : ELISA binding of human PD-L1 antibody (Clone: PDL1.D1) with Human PD-L1 recombinant protein. Coating antigen: PD-L1-Fc at 1µg/ml. PD-L1 antibody dilution start from 1000ng/ml, EC50= 4.4 ng/ml

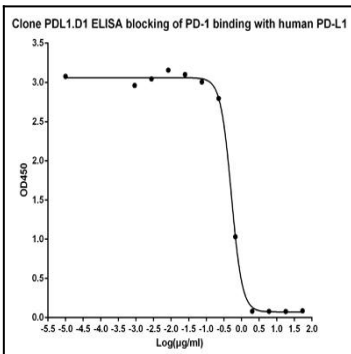


Figure-2 : ELISA blocking of human PD-L1 antibody (Clone: PDL1.D1) against Human PD-1 recombinant protein and binding with Human PD-L1 recombinant protein, Coating antigen: PD-L1-Fc at 1µg/ml, PD-1-Fc final concentration: 0.5µg /ml, PD-L1 antibody dilution start from 50µg/ml, IC50= 0.5µg/ml

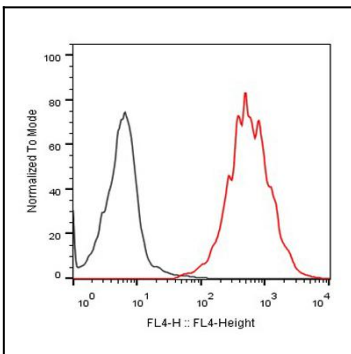


Figure-3 : Flow cytometric analysis of PD-1 Antibody (Clone: PDL1. D1) at 5 µg/ml on CHO-K1/PD1 stable cell expressing PD-1 (Red histogram) and CHO negative control cell (Black histogram), 2.5x10⁵ cells/reaction. iFluor647 conjugated Goat Anti-Mouse IgG used as Secondary Antibody.

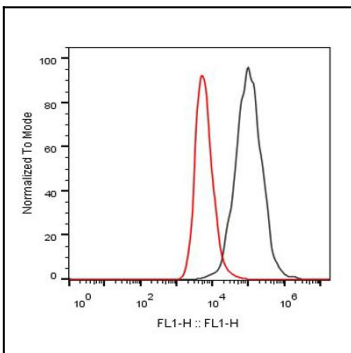


Figure-4 : FACS ligand blocking test of PD-L1 Antibody (Clone: PDL1.D1) on the binding of human PD-L1 cell line with Human PD-1 (Red histogram) and CHO negative control cell (Black histogram), Antibody working concentration: 5 µg/ml, 2.5x10⁵ cells/reaction, Ligand (PD-1) working concentration: 1 µg/ml, Alexa Fluor 647 Conjugated Affinipure Goat anti-human IgG (H + L) used as secondary antibody