

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

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

<b>Amount :</b>	40 µg
<b>Purification :</b>	Protein A chromatography
<b>Content :</b>	0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.
<b>Storage condition :</b>	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

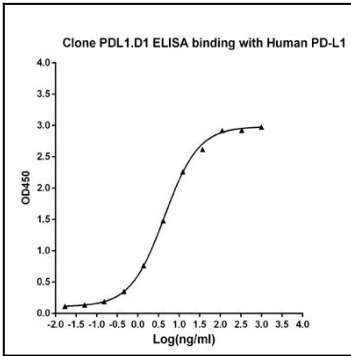


Figure-1 : ELISA binding of human PD-L1 antibody (Clone: PDL1.D1) with Human PD-L1 recombinant protein. Coating antigen: PD-L1-Fc at 1µg/ml. PD-L1 antibody dilution start from 1000ng/ml, EC50= 4.4 ng/ml

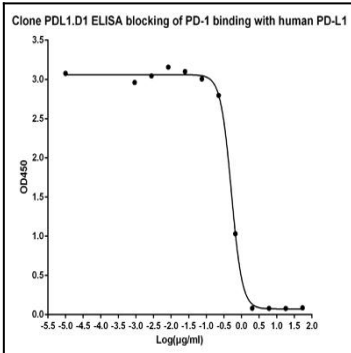


Figure-2 : ELISA blocking of human PD-L1 antibody (Clone: PDL1.D1) against Human PD-1 recombinant protein and binding with Human PD-L1 recombinant protein, Coating antigen: PD-L1-Fc at 1µg/ml, PD-1-Fc final concentration: 0.5µg /ml, PD-L1 antibody dilution start from 50µg/ml, IC50= 0.5µg/ml

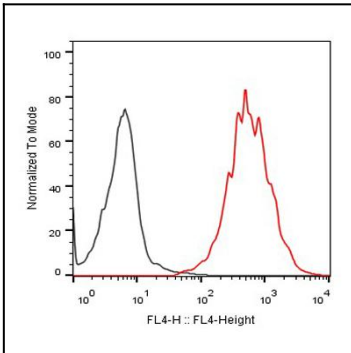


Figure-3 : Flow cytometric analysis of PD-1 Antibody (Clone: PDL1. D1) at 5 µg/ml on CHO-K1/PD1 stable cell expressing PD-1 (Red histogram) and CHO negative control cell (Black histogram), 2.5x10<sup>5</sup> cells/reaction. iFluor647 conjugated Goat Anti-Mouse IgG used as Secondary Antibody.

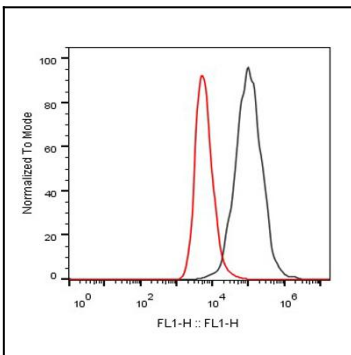


Figure-4 : FACS ligand blocking test of PD-L1 Antibody (Clone: PDL1.D1) on the binding of human PD-L1 cell line with Human PD-1 (Red histogram) and CHO negative control cell (Black histogram), Antibody working concentration: 5 µg/ml, 2.5x10<sup>5</sup> cells/reaction, Ligand (PD-1) working concentration: 1 µg/ml, Alexa Fluor 647 Conjugated Affinipure Goat anti-human IgG (H + L) used as secondary antibody