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

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

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

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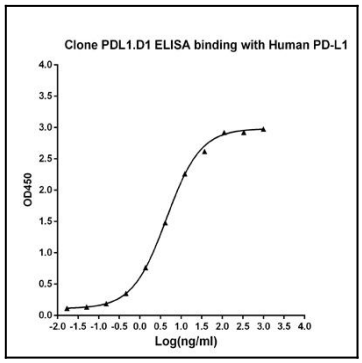

Figure-1 : ELISA binding of human PD-L1 antibody (Clone: PDL1.D1) with Human PD-L1 recombinant protein. Coating antigen: PD-L1-Fc at 1µg/ml. PD-L1 antibody dilution start from 1000ng/ml, EC50= 4.4 ng/ml

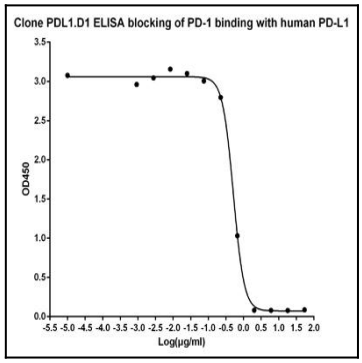

Figure-2 : ELISA blocking of human PD-L1 antibody (Clone: PDL1.D1) against Human PD-1 recombinant protein and binding with Human PD-L1 recombinant protein, Coating antigen: PD-L1-Fc at 1µg/ml, PD-1-Fc final concentration: 0.5µg /ml, PD-L1 antibody dilution start from 50µg/ml, IC50= 0.5µg/ml

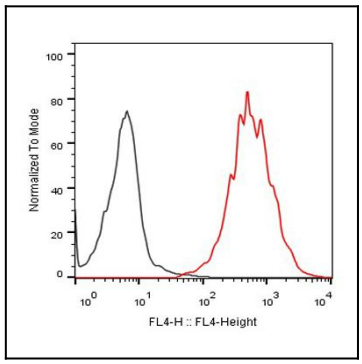

Figure-3 : Flow cytometric analysis of PD-1 Antibody (Clone: PDL1. D1) at 5 µg/ml on CHO-K1/PD1 stable cell expressing PD-1 (Red histogram) and CHO negative control cell (Black histogram), 2.5x10â□µ cells/reaction. iFluor647 conjugated Goat Anti-Mouse IgG used as Secondary Antibody.

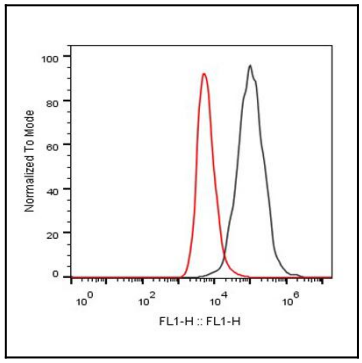

Figure-4 : FACS ligand blocking test of PD-L1 Antibody (Clone: PDL1.D1) on the binding of human PD-L1 cell line with Human PD-1 (Red histogram) and CHO negative control cell (Black histogram), Antibody working concentration: 5 µg/ml, 2.5x10â□µ cells/reaction, Ligand (PD-1) working concentration: 1 Î¼g/ml, Alexa Fluor 647 Conjugated Affinipure Goat anti-human IgG (H + L) used as secondary antibody