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45-1073: Mouse Monoclonal Antibody to Human PD-1 (Clone : PD1.H5) (Discontinued)

Clonality :	Monoclonal
Clone Name :	PD1.H5
Application :	ELISA
Reactivity :	Human
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-1-Fc

Description

Programmed cell death protein 1 (PD-1), is cell surface receptor expressing on T cells and pro-B cells. Binding of its two ligands PD-L1 and PD-L2 could result in down-regulation of the immune system by inhibiting the T-cell activation process. Thus, PD-1 is an important immune checkpoint and popular target for therapeutic antibodies against many cancers. Anti-Human PD-1 Antibody (PD1.H5), 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-1-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: 10-50 µg/ml
Flow cytometry: 5-10 µg/ml
Blockade of Receptor-ligand Interaction in Flow cytometry: 5-7 µg/ml
IHC: 5-10 µg/ml

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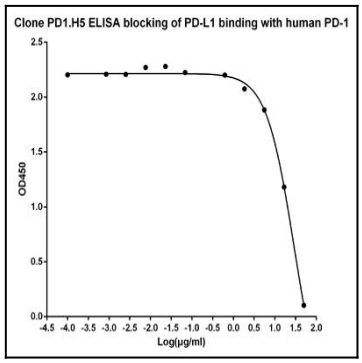

Figure-1 : ELISA blocking of human PD-1 antibody (Clone: PD1.H5) against Human PD-L1 recombinant protein and binding with Human PD-1 recombinant protein, Coating antigen: PD-1-Fc at 1 μg/ml. PD-L1-Fc final concentration: 0.5 μg /ml PD-1 antibody dilution start from 50 μg/ml, IC50= 15.5 μg/ml.

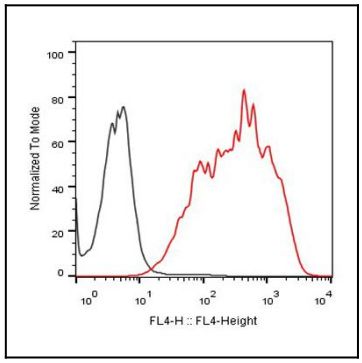

Figure-2 : Flow cytometric analysis of PD-1 Antibody (Clone: PD1. H5) on CHO-K1/PD1 stable cell expressing PD-1 (Red histogram) and CHO negative control cell (Black histogram) at 5 μg/ml, 2.5x10â□μ cells/reaction, iFluor647 conjugated Goat Anti-Mouse IgG used as secondary antibody

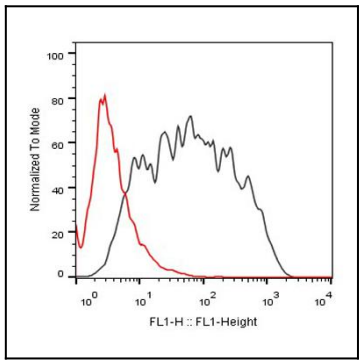

Figure-3 : FACS ligand blocking tests of PD-1 Antibody (Clone: PD1.H5) on the binding of human PD-1 cell line with Human PD-L1 (Red Histogram), CHO negative control cell (Black histogram), Antibody working concentration: 5 μg/ml, 2.5x10â□μ cells/reaction, Ligand (PD-L1) working concentration: 1 Î¼g/ml, Alexa Fluor 647 Conjugated Affinipure Goat anti-human IgG (H + L) used as secondary antibody

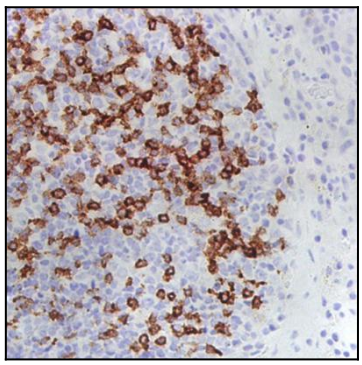

Figure-4 : Immunohistochemical analysis of Human PD-1 Antibody (Clone: PD1.H5) on human tonsil tissue.