

PDCD1LG2 Rabbit pAb

PDCD1LG2 Rabbit pAb Catalog # AP50869

Product Information

Primary Accession

Reactivity

Predicted

Host

Clonality

Calculated MW

Physical State

Q9BQ51

Human

Mouse, Rat

Rabbit

Polyclonal

30957

Liquid

Immunogen KLH conjugated synthetic peptide derived from human PDCD1LG2

Epitope Specificity 41-150/273 **Isotype** IgG

Purity affinity purified by Protein A

Buffer0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. **SUBCELLULAR LOCATION**Isoform 3: Secreted (Probable), Isoform 2: Endomembrane system:

Single-pass type I membrane protein. Isoform 1: Cell membrane; Single-pass

type I membrane protein.

SIMILARITY Belongs to the immunoglobulin superfamily. BTN/MOG family. Contains 1

Ig-like C2-type (immunoglobulin-like) domain. Contains 1 Ig-like V-type

(immunoglobulin-like) domain.

SUBUNIT Interacts with PDCD1.

Post-translational Phosphorylated by AKT1. Phosphorylation relieves inhibitory function on

modifications mTORC1.

Important Note This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions B7DC is a 33kDa member of the immunoglobulin receptor superfamily

expressed on DC, liver and a small subset of macrophages as well as a few transformed cell lines. B7DC has been reported to be stimulatory on dendritic cells when cross linked and to inhibit T cell activation upon engaging the PD1 receptor. B7DC has also been reported to bind to an alternative receptor and

to mediate T cell activation through non PD1 mediated interactions.

Additional Information

Gene ID 80380

Other Names Programmed cell death 1 ligand 2, PD-1 ligand 2, PD-L2, PDCD1 ligand 2,

Programmed death ligand 2, Butyrophilin B7-DC, B7-DC, CD273, PDCD1LG2,

B7DC, CD273, PDCD1L2, PDL2

Target/Specificity Highly expressed in heart, placenta, pancreas, lung and liver and weakly

expressed in spleen, lymph nodes and thymus.

Dilution ICC/IF=1:100-500,Flow-Cyt=1ug/Test

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name PDCD1LG2

Synonyms B7DC, CD273, PDCD1L2, PDL2

Function Involved in the costimulatory signal, essential for T-cell proliferation and

IFNG production in a PDCD1-independent manner. Interaction with PDCD1 inhibits T-cell proliferation by blocking cell cycle progression and cytokine

production (By similarity).

Cellular Location [Isoform 3]: Secreted [Isoform 1]: Cell membrane; Single-pass type I

membrane protein {ECO:0000250 | UniProtKB:Q9WUL5,

ECO:0000305 | PubMed:15340161}

Tissue Location Highly expressed in heart, placenta, pancreas, lung and liver and weakly

expressed in spleen, lymph nodes and thymus

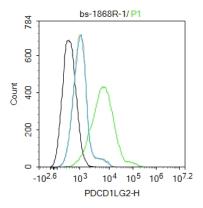
Background

B7DC is a 33kDa member of the immunoglobulin receptor superfamily expressed on DC, liver and a small subset of macrophages as well as a few transformed cell lines. B7DC has been reported to be stimulatory on dendritic cells when cross linked and to inhibit T cell activation upon engaging the PD1 receptor. B7DC has also been reported to bind to an alternative receptor and to mediate T cell activation through non PD1 mediated interactions.

References

Tseng S.-Y.,et al.J. Exp. Med. 193:839-846(2001). Latchman Y.,et al.Nat. Immunol. 2:261-268(2001). He X.-H.,et al.Acta Biochim. Biophys. Sin. 36:284-289(2004). Humphray S.J.,et al.Nature 429:369-374(2004). Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).

Images



Blank control:HepG2.

Primary Antibody (green line): Rabbit Anti-PDCD1LG2

antibody (AP50869)
Dilution: 1ug/Test:

Secondary Antibody (white blue line): Goat anti-rabbit

IgG-AF488

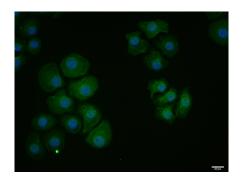
Dilution: 0.5ug/Test.

Isotype control(orange line): Normal Rabbit IgG

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room

temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (PDCD1LG2) polyclonal Antibody, Unconjugated (AP50869) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.