

PD-L1

rev. 12/09/16

Cat#: ET1701-41

Product Type: Recombinant rabbit monoclonal IgG, primary antibodies

Species reactivity: Human, Mouse, Rat

Applications: WB, IHC

Molecular Wt.: 33 kDa

Description: Engagement of CD28 by B7-1 (CD80) or B7-2 (CD86) in the presence of antigen promotes T cell proliferation, cytokine production, differentiation of effector T cells, and the induction of Bcl-x, a promoter of T cell survival. Conversely, engagement of CTLA4 by B7-1 or B7-2 may inhibit proliferation and IL-2 production. Pcd-1L1 (programmed cell death ligand-1), also known as B7-H1 or PD-L1, is 290 amino acid type I transmembrane protein which is 20% and 15% identical to B7-1 and B7-2, respectively. Pcd-1L2 has immunoglobulin V-like and C-like domains and a 30 amino acid cytoplasmic tail. It does not bind CD28, cytotoxic T-lymphocyte A4 or ICOS (inducible co-stimulator). IL-2, although produced in small amounts, is required for the effect of Pcd-1L1 co-stimulation. The gene which encodes Pcd-1L1 maps to human chromosome 9p24. Pcd-1L2 (programmed cell death ligand-2) is a 73 amino acid protein which contains a signal sequence, IgV- and IgC-like domains, a transmembrane region and a cytoplasmic region. The gene which encodes Pcd-1L2 maps to human chromosome 9p24.2. The constitutive expression of Pcd-1L1 and Pcd-1L2 on parenchymal cells of heart, lung and kidney suggests that the Pcd-1-Pcd-L system could provide unique negative signaling to help prevent autoimmune disease.

Immunogen:

Recombinant protein.

Positive control:

Human tonsil tissue, mouse heart tissue, human melanoma tissue, human lung cancer tissue.

Subcellular location:

Cell membrane, Endomembrane system.

Database links:

SwissProt: Q9NZQ7 (Human) Q9EP73 (Mouse)

Recommended Dilutions:

WB: 1:1,000

IHC: 1:50-1:200

Storage Buffer:

1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction:

Store at +4° C after thawing. Aliquot store at -20° C or -80° C. Avoid repeated freeze / thaw cycles.

Purity:

ProA affinity purified.

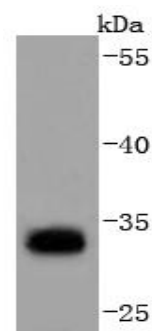


Fig1: Western blot analysis of PD-L1 on mouse heart lysates using anti-PD-L1 antibody at 1/1,000 dilution.

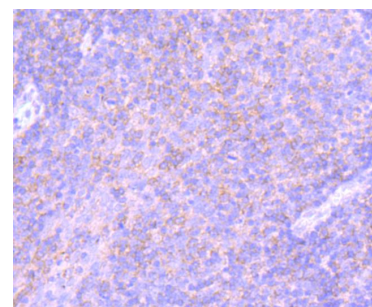


Fig2: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-PD-L1 antibody. Counter stained with hematoxylin.

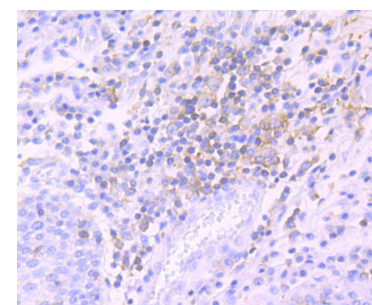


Fig3: Immunohistochemical analysis of paraffin-embedded human melanoma tissue using anti-PD-L1 antibody. Counter stained with hematoxylin.

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Applications: WB=Western blot IP=Immunoprecipitation IHC=Immunohistochemistry IF=Immunofluorescence FC=Flow cytometry
Species Cross-Reactivity: H=human M=mouse R=rat Hm=hamster Mk=monkey Mi=mink C=chicken Dm=D.melanogaster X=Xenopus Z=zebrafish
B=bovine Dg=dog Pg=pig Sc=S.

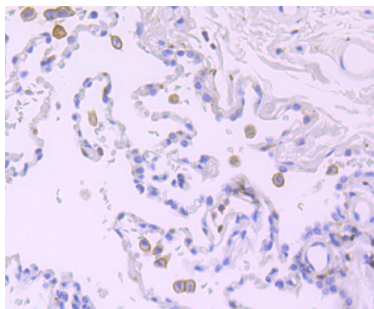


Fig4: Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-PD-L1 antibody. Counter stained with hematoxylin.

Background References

1. Jurado J. O., et al. Programmed death (PD)-1:PD-ligand 1/PD-ligand 2 pathway inhibits T cell effector functions during human tuberculosis. *J. Immunol.* 181:116-125 (2008).
2. Boorjian S. A., et al. T-cell coregulatory molecule expression in urothelial cell carcinoma: clinicopathologic correlations and association with survival. *Clin. Cancer Res.* 14:4800-4808 (2008).

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