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Anti-PD-L1/B7-H1 Picoband Antibody

Catalog # ABO12679

Product Information

Application	WB, E
Primary Accession	Q9EP73
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Programmed cell death 1 ligand 1(CD274) detection. Tested with WB, ELISA in Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	60533
Other Names	Programmed cell death 1 ligand 1, PD-L1, PDCD1 ligand 1, Programmed death ligand 1, B7 homolog 1, B7-H1, CD274, Cd274, B7h1, Pdcd1l1, Pdcd1lg1, Pdl1
Calculated MW	32780
Application Details	ELISA , 0.1-0.5 □g/ml, Mouse, - Western blot, 0.1-0.5 □g/ml, Mouse
Subcellular Localization	Cell membrane ; Single-pass type I membrane protein .
Tissue Specificity	Highly expressed in the heart, thymus, skeletal muscle, and lung. Weakly expressed in the kidney, spleen, thyroid, and liver. Expressed on activated dendritic cells, B- cells and macrophages. Expressed in numerous tumor cells lines of lymphoid origin. .
Source	Eukaryota
Protein Name	Programmed cell death 1 ligand 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E. coli-derived mouse PD-L1 recombinant protein (Position: F19-T238). Mouse PD-L1 shares 78.6% amino acid (aa) sequence identity with human PD-L1.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.

Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Protein Information

Name	Cd274
Synonyms	B7h1, Pdcd1l1, Pdcd1lg1, Pdl1
Function	Plays a critical role in induction and maintenance of immune tolerance to self (PubMed:11238124). As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed:11238124). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed:11015443, PubMed:12719480).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:Q9NZQ7}; Single-pass type I membrane protein. Early endosome membrane {ECO:0000250|UniProtKB:Q9NZQ7}; Single-pass type I membrane protein. Recycling endosome membrane {ECO:0000250|UniProtKB:Q9NZQ7}; Single-pass type I membrane protein
Tissue Location	Highly expressed in the heart, thymus, skeletal muscle, and lung. Weakly expressed in the kidney, spleen, thyroid, and liver. Expressed on activated dendritic cells, B-cells and macrophages Expressed in numerous tumor cells lines of lymphoid origin

Background

Programmed death-ligand 1 (PD-L1), also known as CD274 or B7-H1, is a protein that in humans is encoded by the CD274 gene. It is mapped to 9p24.1. PD-L1 is a 40kDa type 1 transmembrane protein that has been speculated to play a major role in suppressing the immune system during particular events such as pregnancy, tissue allografts, autoimmune disease and other disease states such as hepatitis. It has been concluded that upregulation of PD-L1 on tumor MDCs downregulates T-cell immunity and that PD-L1 blockade may represent an approach for cancer immunotherapy. Additionally, PD-L1 can provide positive costimulatory signals for innate and adaptive immunity and for protection against intracellular bacterial infection. What â€™s more, it has been found that PD1/PDL1 pathway may be a good target for restoring antitumor immunity in ovarian cancer.

Images



Western blot analysis of PD-L1 expression in mouse brain extract (lane 1). PD-L1 at 39KD was detected using rabbit anti- PD-L1 Antigen Affinity purified polyclonal antibody (Catalog # ABO12679) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .

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