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PD-L1 Rabbit pAb

Catalog # AP96491

Product Information

Application	WB
Primary Accession	Q9EP73
Other Accession	Q9EP73
Reactivity	Rat, Human, Mouse
Predicted	Pig, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32780
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse B7-H1
Epitope Specificity	201-290/290
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The encoded protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Expression of this gene in tumor cells is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Additional Information

Gene ID	60533
Other Names	ADMIO5; B7-H; B7H1; PD-L1; PDCD1L1; PDCD1LG1; PDL1; hPD-L1; A530045L16Rik; RGD1566211; PD1L1_HUMAN; CD274; PDCD1 ligand 1; Programmed death ligand 1; B7 homolog 1 (B7-H1); PD1L1_MOUSE; CD274 molecule; programmed cell death 1 ligand 1; CD274 antigen; B7 homolog 1

Dilution	WB=1:500-2000
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	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

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