

anti-Human, Rat PD1 Polyclonal Antibody | anti-PD1 antibody

Anti-PD1 Antibody

CATALOG # AAA46251	REACTIVITY Human, Rat	APPLICATIONS Western Blot
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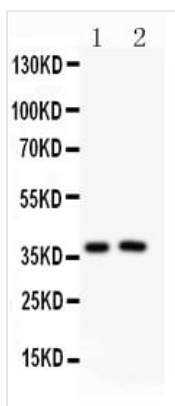
PRODUCT SYNONYMS

PD1; Polyclonal Antibody; Anti-PD1 Antibody; Programmed cell death protein 1; CD279; CD279 antigen; hPD I; hPD-1; hSLE1; PD 1; PD-1; PDCD 1; PDCD1; PDCD1_HUMAN; Programmed cell death 1; Protein PD 1; Protein PD-1; SLEB2; Systemic lupus erythematosus susceptibility 2; programmed cell death 1; anti-PD1 antibody

PRODUCT SPECIFICATIONS

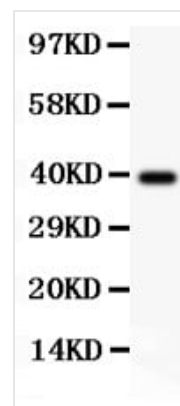
Reactivity	Human, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	288
Applicable Applications for anti-PD1 antibody	WB (Western Blot)
Immunogen	E Coli-derived human PD1 recombinant protein (Position: P101-L288). Human PD1 shares 59% amino acid (aa) sequence identity with mouse PD1.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



Application Data

Anti-PD1 Picoband antibody, -2.jpg All lanes: Anti PD1 at 0.5ug/ml Lane 1: JURKAT Whole Cell Lysate at 40ug Lane 2: Human Placenta Tissue Lysate at 50ug Predicted bind size: 32KD Observed bind size: 38KD



WB (Western Blot)

Anti-PD1 Picoband antibody, -1.jpg All lanes: Anti PD1 at 0.5ug/ml WB: Recombinant Human PD1 Protein 0.5ng Predicted bind size: 38KD Observed bind size: 38KD

ADDITIONAL INFORMATION

Related Product Information for anti-PD1 antibody	Description: Rabbit IgG polyclonal antibody for Programmed cell death protein 1(PDCD1) detection. Tested with WB in Human;Rat. Background: PDCD1(Programmed cell death 1), also called PD1, encodes a cell surface receptor that is a member of the B7 superfamily involved in immunomodulation. This gene is mapped to 2q37.3. PDCD1 acts as an inhibitory molecule on T cells after interacting with its ligands PDL1 and PDL2. The PDCD1 gene contains 5 exons. This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. Using flow cytometric analysis, It has been found that expression of PDCD1 was upregulated on CD16-positive and CD16-negative monocytes, but not on dendritic cells, in viremic HIV-positive patients, but not in highly active antiretroviral therapy (HAART)-treated HIV-positive patients. PDCD1 upregulation in monocytes was induced by microbial Toll-like receptor ligands and inflammatory cytokines.
References	1. Barber, D. L., Wherry, E. J., Masopust, D., Zhu, B., Allison, J. P., Sharpe, A. H., Freeman, G. J., Ahmed, R. Restoring function in exhausted CD8 T cells during chronic viral infection. Nature 439: 682-687, 2006. 2. Dai, H., Wan, N., Zhang, S., Moore, Y., Wan, F., Dai, Z. Cutting edge: programmed death-1 defines CD8+CD122+ T cells as regulatory versus memory T cells. J. Immun. 185: 803-807, 2010. 3. Finger, L. R., Pu, J., Wasserman, R., Vibhakar, R., Louie, E., Hardy, R. R., Burrows, P. D., Billips, L. G. The human PD-1 gene: complete cDNA, genomic organization, and developmentally regulated expression in B cell progenitors. Gene 197: 177-187, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167857792
NCBI GeneID	5133
NCBI Accession #	NP_005009.2
NCBI GenBank Nucleotide #	NM_005018.2
UniProt Accession #	Q15116; O00517; Q8IX89
Molecular Weight	31,647 Da
NCBI Official Full Name	programmed cell death protein 1
NCBI Official Synonym Full Names	programmed cell death 1
NCBI Official Symbol	PDCD1
NCBI Official Synonym Symbols	PD1; PD-1; CD279; SLEB2; hPD-1; hPD-I; hSLE1
NCBI Protein Information	programmed cell death protein 1
UniProt Protein Name	Programmed cell death protein 1
UniProt Gene Name	PDCD1
UniProt Synonym Gene Names	PD1; Protein PD-1; hPD-1
UniProt Entry Name	PDCD1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.