

Rabbit anti-Mouse, Rat PD1/Pdcd1 Polyclonal Antibody | anti-PDCD1 antibody

Anti-PD1/Pdcd1 Antibody Picoband

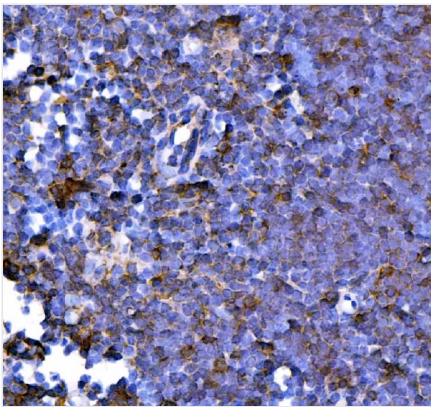
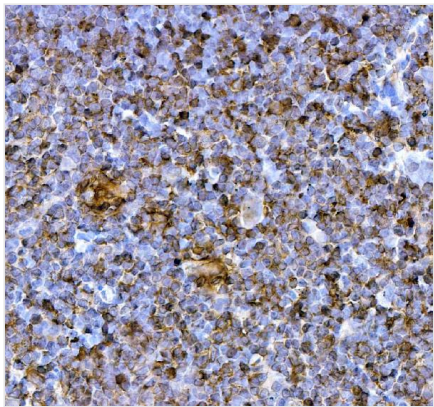
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125973	Rabbit	Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PD1/Pdcd1; Polyclonal Antibody; Anti-PD1/Pdcd1 Antibody Picoband; anti-PDCD1 antibody

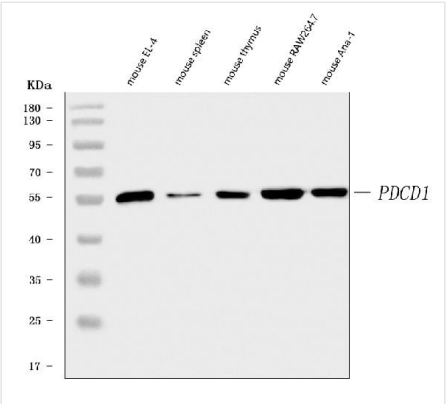
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-PDCD1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived mouse PD1/Pdcd1 recombinant protein (Position: A48-L288).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of PD1/Pdcd1 using anti-PD1/Pdcd1 antibody (AAA125973).PD1/Pdcd1 was detected in a paraffin-embedded section of rat thymus tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PD1/Pdcd1 Antibody (AAA125973) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

IHC (Immunohistochemistry)
Figure 2. IHC analysis of PD1/Pdcd1 using anti-PD1/Pdcd1 antibody (AAA125973).PD1/Pdcd1 was detected in a paraffin-embedded section of mouse thymus tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PD1/Pdcd1 Antibody (AAA125973) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of PD1/Pdcd1 using anti-PD1/Pdcd1 antibody (AAA125973).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: mouse EL-4 whole cell lysates,Lane 2: mouse spleen tissue lysates,Lane 3: mouse thymus tissue lysates,Lane 4: mouse RAW264.7 whole cell lysates,Lane 5: mouse Ana-1 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PD1/Pdcd1 antigen affinity purified polyclonal antibody (#AAA125973) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PD1/Pdcd1 at approximately 55 kDa. The expected band size for PD1/Pdcd1 is at 32 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PDCD1 antibody

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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	400743
NCBI GeneID	18566
UniProt Accession #	Q02242
Molecular Weight	31,842 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	PD-1; Pdc1; Ly101
NCBI Protein Information	programmed cell death protein 1; mPD-1; protein PD-1
UniProt Protein Name	Programmed cell death protein 1
UniProt Gene Name	Pdcd1
UniProt Synonym Gene Names	Pd1; Protein PD-1; mPD-1
UniProt Entry Name	PDCD1_MOUSE

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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/pd1-pdcd1-antibody-immunohistochemistry-western-blot-elisa/125973>