

Rabbit anti-Human, Mouse PDCD1 / CD279 / PD-1 Polyclonal Antibody | anti-PDCD1 antibody

Rabbit Polyclonal to Human PDCD1 / CD279 / PD-1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50722	Rabbit	Human, Mouse	ELISA, Western Blot, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

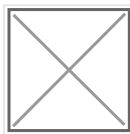
PDCD1 / CD279 / PD-1; Polyclonal Antibody; Rabbit Polyclonal to Human PDCD1 / CD279 / PD-1; Anti-PDCD1 / CD279 / PD-1 Antibody (C-Terminus) IHC-plus; PDCD1; CD279; HPD-1; HPD-I; PD1; Protein PD-1; SLEB2; PD-1; CD279 antigen; Programmed cell death 1; Human PDCD1; anti-PDCD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Peptide Column Affinity Chromatography
Form/Format	PBS, 0.02% sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	288
Applicable Applications for anti-PDCD1 antibody	ELISA, WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry)
Target Species	Human
Immunogen Type	Synthetic peptide
Immunogen	PDCD1 / CD279 / PD-1 antibody was raised against synthetic peptide from human PDCD1 / CD279.
Antigen Modification	C-Terminus
Target	Human PDCD1/CD279/PD-1
Family/Subfamily	Apoptosis
Immunogen Type	Synthetic peptide
Immunogen	PDCD1 / CD279 / PD-1 antibody was raised against synthetic peptide from human PDCD1 / CD279.
Target	Human PDCD1/CD279/PD-1
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

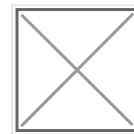
Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-drying oven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Store at 4 degree C for up 3 months. Store at -20 degree C for up to 1 yr. Avoid freeze/thaw cycles.

IMAGES



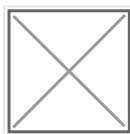
WB (Western Blot)

Western blot of PD-1 in THP-1 cell lysate with PD-1 antibody at 1 ug/ml in the (A) absence and (B) presence of blocking peptide.



IF (Immunofluorescence)

Immunofluorescence of PD-1 in Human Brain cells with PD-1 antibody at 20 ug/ml.



IHC (Immunohistochemistry)

Anti-PD1 antibody IHC of human skin. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-PDCD1 antibody	PD-1 (PDCD1) encodes a cell surface membrane protein of the immunoglobulin superfamily. PD-1 is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large numbers of thymocytes undergo apoptosis. Mice deficient for PD-1 bred on a BALB/c background developed dilated cardiomyopathy and died from congestive heart failure.
Product Categories/Family for anti-PDCD1 antibody	Family: Apoptosis

NCBI AND UNIPROT INFORMATION

NCBI GI #	167857792
NCBI GeneID	5133
NCBI Accession #	NP_005009.2
NCBI GenBank Nucleotide #	NM_005018.2
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; protein PD-1; systemic lupus erythematosus susceptibility 2
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.