

Human PD1/PDCD1/CD279 Monoclonal Antibody | anti-PDCD1 antibody

PD1/PDCD1/CD279 Neutralizing Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254878	Human	HumanPredicted to React with: KD of the antibody is	Neutralization Assay

PRODUCT SYNONYMS

PD1/PDCD1/CD279; Monoclonal Antibody; PD1/PDCD1/CD279 Neutralizing Antibody; programmed cell death 1; Anti-CD279 Antibody; Anti-hPD-1 Antibody; Anti-hPD-I Antibody; Anti-hSLE1 Antibody; Anti-PD-1 Antibody; Anti-PD1 Antibody; Anti-SLEB2 Antibody; anti-PDCD1 antibody

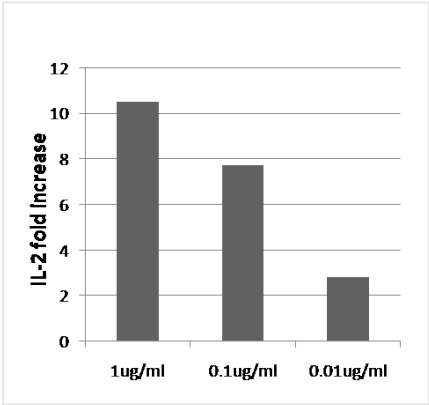
PRODUCT SPECIFICATIONS

Host	Human
Reactivity	Human Predicted to React with: KD of the antibody is <1.43E-10M for PD1 as measured by OCTET RED System.
Clonality	Monoclonal
Isotype	Human IgG4
Clone Number	HN94
Specificity	Human PD-1. No cross-reactivity in ELISA with Mouse PD1 Protein
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in Histidine and Arginine buffer containing 120mM NaCl, 0.02% Tween 80, pH6.0
Applicable Applications for anti-PDCD1 antibody	NTRL (Neutralization Assay), Blocking
Immunogen	Recombinant Human PD1/PDCD1/CD279 Protein
Endotoxin	<0.5EU/mg
Conjugation	Unconjugated
Preparation	This antibody was a humanized antibody obtained from a mouse immunized with the recombinant Human PD1/PDCD1 Protein and was produced using recombinant antibody technology.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

time	sample code	PD1-HN94 (10377-HN94)	Isotype negative control	PD1 EHC-positive antibody	Result Analysis
Skin	(1)	(2)	(3)	(4)	No binding
Lymph gland	(5)	(6)	(7)	(8)	No binding
Stomach	(9)	(10)	(11)	(12)	No binding
Pancreas	(13)	(14)	(15)	(16)	No binding
Kidney	(17)	(18)	(19)	(20)	No binding
Lung	(21)	(22)	(23)	(24)	No binding
Liver	(25)	(26)	(27)	(28)	No binding
Thyroid gland	(29)	(30)	(31)	(32)	No binding
Mammary gland	(33)	(34)	(35)	(36)	No binding
Testis	(37)	(38)	(39)	(40)	No binding
Adrenal gland	(41)	(42)	(43)	(44)	No binding
Bladder	(45)	(46)	(47)	(48)	No binding

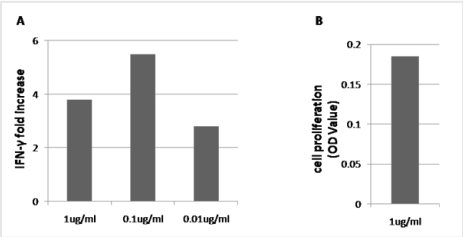
Application Data

Safety informationNon specific binding in human tissuesNo non-specific or specific binding were detected on 12 human formalin-fixed, paraffin-embedded tissue sections using sensitive HPR detection system.



Application Data

Effect of Human PD1 HN94 antibody on IL-2 production in the Mixed Lymphocyte Reaction (MLR). Purified CD4+ T cells were cultured with allogeneic dendritic cells, as prepared by culturing monocytes in GM-CSF and IL-4 medium for six days, in the medium containing serial concentrations of human PD1-HN94-IgG4. Five days later, the IL-2 production in the medium was evaluated.



Application Data

Effect of Human PD1 HN94 antibody on IFN-gamma production in the Mixed Lymphocyte Reaction (MLR). Purified CD4+ T cells were cultured with allogeneic dendritic cells, as prepared by culturing monocytes in GM-CSF and IL-4 medium for six days, in the medium containing serial concentrations of human PD1-HN94-IgG4. Five days later, the IFN-gamma production in the medium was evaluated (A), and the cell proliferation was measured by WST-8. assay (B).

ADDITIONAL INFORMATION

Related Product Information for anti-PDCD1 antibody	Programmed cell death 1, also known as PDCD1, is a type I transmembrane glycoprotein, and is an immunoreceptor belonging to the CD28/CTLA-4 family negatively regulates antigen receptor signaling by recruiting protein tyrosine phosphatase, SHP-2 upon interacting with either of two ligands, PD-L1 or PD-L2. PD1 inhibits the T-cell proliferation and production of related cytokines including IL-1, IL-4, IL-10 and IFN-gamma by suppressing the activation and transduction of PI3K/AKT pathway. In addition, coligation of PD1 inhibits BCR-mediating signal by dephosphorylating key signal transducer. PD1 has been suggested to be involved in lymphocyte clonal selection and peripheral tolerance, and thus contributes to the prevention of autoimmune diseases. Furthermore, PD1 is shown to be a regulator of virus-specific CD8+ T cell survival in HIV infection. As a cell surface molecule, PDCD1 regulates the adaptive immune response. Engagement of PD-1 by its ligands PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation, cytokine production, and cytolytic function.
Product Categories/Family for anti-PDCD1 antibody	ITIM/ITAM Immunoreceptors and Related Molecules Cancer Drug Targets
References	James ES, et al. (2005) PDCD1: a tissue-specific susceptibility locus for inherited inflammatory disorders. Genes Immun. 6(5): 430-7.Okazaki T, et al. (2007) PD-1 and PD-1 ligands: from discovery to clinical application. Int Immunol. 19(7): 813-24.del Rio ML, et al. (2008) PD-1/PD-L1, PD-1/PD-L2, and other co-inhibitory signaling pathways in transplantation. Transpl Int. 21(11): 1015-28.Riley JL.(2009) PD-1 signaling in primary T cells. Immunol Rev. 229(1): 114-25.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167857792
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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

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/monoclonal/pd1-pdcd1-cd279-antibody-clone-hn94-neutralization-assay-elisa/254878>