Mouse anti-Human PDCD1 Monoclonal Antibody | anti-PDCD1 antibody

PDCD1 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48010	**Mouse**	**Human**	**Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA**

PRODUCT SYNONYMS

PDCD1; Monoclonal Antibody; PDCD1 antibody; Programmed cell death 1; CD279; PD1; hPD-1; hPD-l;; anti-PDCD1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	4F12
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	288
Applicable Applications for anti-PDCD1 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human PDCD1 (21-167aa) purified from E. coli
Clone Note	Anti-human PDCD1 mAb, clone 4F12, is derived from hybridization of mouse FO myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PDCD1 protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES

IF (Immunofluorescence)
ICC/IF analysis of PDCP1 in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PDCD1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

WB (Western Blot)
Cell lysates of 293T and U937 (40ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human PDCD1 (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-PDCD1 antibody	PDCD1 is an immunoreceptor that belongs to the immunoglobulin (Ig) superfamily, also known as Programmed Cell Death 1. It is expressed on activated T cell, B cells, myeloid cells and a subset of thymocytes. PDCD1 interacts with expressed PDL1 and PDL2 to inhibit the proliferation and activation of T cells and B cells. Both PDL1 and PDL2 are expressed in a wide variety of normal tissues including heart, lung, placenta, spleen and kidney. PDCD1 might be involved in the regulation of peripheral tolerance and may help prevent autoimmune diseases
Product Categories/Family for anti-PDCD1 antibody	Cancer
References	Freeman GJ, et al., (2000) J Exp Med. 192 (7):1027-34; Latchman Y, et al., (2001) Nat Immunol. 2 (3):261-8; Nishimura H, HonjoT., (2001) Trends Immunol. 22 (5):265-8; Okazaki T, et al., (2001) Proc Natl Acad Sci USA. 98 (24):13866-71

NCBI AND UNIPROT INFORMATION

NCBI GI #	49902307
NCBI GeneID	5133
Molecular Weight	31,647 Da
NCBI Official Full Name	Programmed cell death 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-l; 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

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://stage.aaabiotech.com/monoclonal/pdcd1-antibody-clone-4f12-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/48010