

Rabbit anti-Human PDCD4 Polyclonal Antibody | anti-PDCD4 antibody

Anti-PDCD4 Antibody Picoband

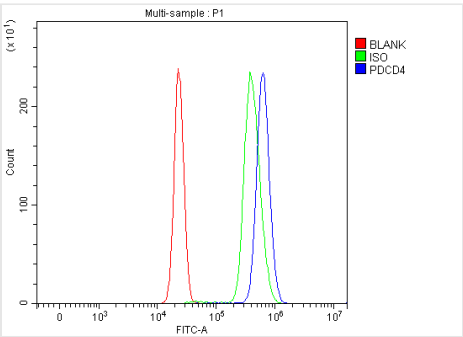
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126108	Rabbit	Human	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

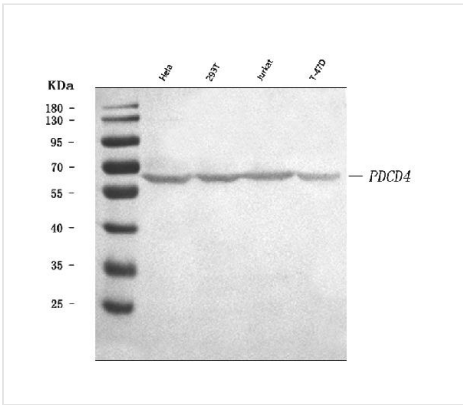
PDCD4; Polyclonal Antibody; Anti-PDCD4 Antibody Picoband; anti-PDCD4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Mouse Ctse
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-PDCD4 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	0.156 ng/ml - 10 ng/ml
Sensitivity	<20 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
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.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of HepG2 cells using anti-PDCD4 antibody (AAA126108).Overlay histogram showing HepG2 cells stained with AAA126108 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PDCD4 Antibody (AAA126108, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of PDCD4 using anti-PDCD4 antibody (AAA126108).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: human Hela whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human Jurkat whole cell lysates,Lane 4: human T-47D 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-PDCD4 antigen affinity purified polyclonal antibody (#AAA126108) 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 PDCD4 at approximately 64 kDa. The expected band size for PDCD4 is at 52 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PDCD4 antibody	Background: Cathepsin E is a protein that in humans is encoded by the CTSE gene. It is mapped to 1q32.1. The protein encoded by this gene is a gastric aspartyl protease that functions as a disulfide-linked homodimer. This protease, which is a member of the peptidase C1 family, has a specificity similar to that of pepsin A and cathepsin D. It is an intracellular proteinase that does not appear to be involved in the digestion of dietary protein and is found in highest concentration in the surface of epithelial mucus-producing cells of the stomach. Cathepsin E is the first aspartic proteinase expressed in the fetal stomach and is found in more than half of gastric cancers. It appears, therefore, to be an oncofetal antigen, and it also has an important role in immune responses.
Principle of the Assay: The Mouse Ctse Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Ctse with a 96-well strip plate that is pre-coated with antibody specific for Ctse. The detection antibody is a biotinylated antibody specific for Ctse. The capture antibody is a monoclonal antibody from rat and the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Mouse Ctse with immunogen: Expression system for standard: NS0; Immunogen sequence: S60-P397. The kit is analytically validated with ready-to-use reagents. To measure Mouse Ctse, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Ctse in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Ctse in the sample.	
Product Categories/Family for anti-PDCD4 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	21735596
NCBI GeneID	27250

NCBI Accession #	NP_055271.2
NCBI GenBank Nucleotide #	NM_014456.4
UniProt Accession #	Q53EL6 ; O15501 ; Q5VZS6 ; Q6PJI5 ; Q8TAR5 ; Q99834 ; B2RCV4 ; B5ME91
Molecular Weight	51,735 Da
NCBI Official Full Name	programmed cell death protein 4 isoform 1
NCBI Official Synonym Full Names	programmed cell death 4 (neoplastic transformation inhibitor)
NCBI Official Symbol	PDCD4
NCBI Official Synonym Symbols	H731
NCBI Protein Information	programmed cell death protein 4; protein 197/15a; nuclear antigen H731; neoplastic transformation inhibitor protein
UniProt Protein Name	Programmed cell death protein 4
UniProt Gene Name	PDCD4
UniProt Synonym Gene Names	H731
UniProt Entry Name	PDCD4_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pdcd4-antibody-flow-cytometry-western-blot-elisa/126108>