

Rabbit CD300A Polyclonal Antibody | anti-CD300A antibody

Anti-CD300A Antibody Picoband

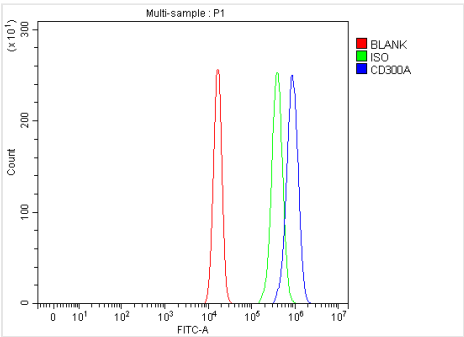
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127338	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

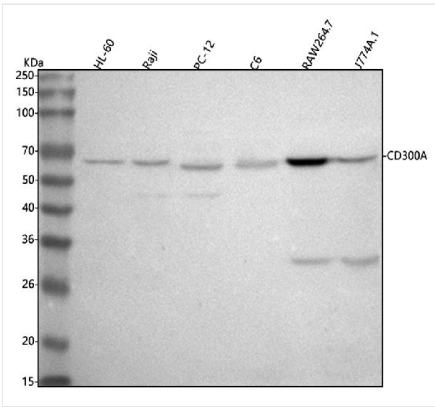
CD300A; Polyclonal Antibody; Anti-CD300A Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-CD300A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-CD300A antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human CD300A recombinant protein (Position: L156-T299). Human CD300A shares 54.7% and 55.7% amino acid (aa) sequence identity with mouse and rat CD300A, respectively.
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Preparation and Storage	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 U2OS cells using anti-CD300A antibody (AAA127338).Overlay histogram showing U2OS cells stained with AAA127338 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CD300A Antibody (AAA127338, 1ug/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 (1ug/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 CD300A using anti-CD300A antibody (AAA127338).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 HL-60 whole cell lysates,Lane 2: human Raji whole cell lysates,Lane 3: rat PC-12 whole cell lysates,Lane 4: rat C6 whole cell lysates,Lane 5: mouse Raw264.7 whole cell lysates,Lane 6: mouse J774A.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-CD300A antigen affinity purified polyclonal antibody (#AAA127338) at 0.5ug/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 CD300A at approximately 68 kDa. The expected band size for CD300A is at 33 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CD300A antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-CD300A antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Bachelet, I., Munitz, A., Moretta, A., Moretta, L., Levi-Schaffer, F. The inhibitory receptor IRp60 (CD300a) is expressed and functional on human mast cells. J. Immun. 175: 7989-7995, 2005. 2. Clark, G. J., Green, B. J., Hart, D. N. J. The CMRF-35H gene structure predicts for an independently expressed member of an ITIM/ITAM pair of molecules localized to human chromosome 17. Tissue Antigens 55: 101-109, 2000.3. Green, B. J., Clark, G. J., Hart, D. N. J. The CMRF-35 mAb recognizes a second leukocyte membrane molecule with a domain similar to the poly Ig receptor. Int. Immun. 10: 891-899, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	378786683
NCBI GeneID	11314
NCBI Accession #	NP_001243770.1
NCBI GenBank Nucleotide #	NM_001256841.1
UniProt Accession #	Q9UGN4; O95100; Q9HD97; Q9P0F3; Q9UBK4; Q9UMS9; Q9UMT0; A8MW96
Molecular Weight	16,517 Da
NCBI Official Full Name	CMRF35-like molecule 8 isoform 2
NCBI Official Synonym Full Names	CD300a molecule

NCBI Official Symbol	CD300A
NCBI Official Synonym Symbols	IRC1; IRC2; CLM-8; IRp60; IGSF12; CMRF35H; CMRF-35H; CMRF35-H; CMRF35H9; CMRF35-H9; IRC1/IRC2; CMRF-35-H9
NCBI Protein Information	CMRF35-like molecule 8; CD300 antigen-like family member A; CD300a antigen; CMRF35H leukocyte immunoglobulin-like receptor; NK inhibitory receptor; immunoglobulin superfamily member 12; inhibitory receptor protein 60; leukocyte membrane antigen
UniProt Protein Name	CMRF35-like molecule 8
UniProt Gene Name	CD300A
UniProt Synonym Gene Names	CMRF35H; IGSF12; CLM-8; CMRF35-H9; IgSF12; IRp60
UniProt Entry Name	CLM8_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/cd300a-antibody-flow-cytometry-western-blot-elisa/127338>