

Rabbit CD2AP Polyclonal Antibody | anti-CD2AP antibody

Anti-CD2AP Picoband antibody

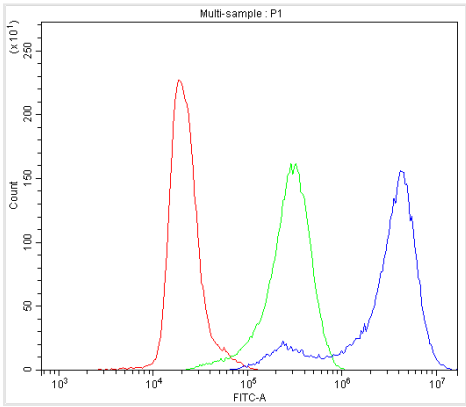
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124667	Rabbit	Human, Mouse, Rat No cross reactivity with other proteins.	Western Blot, ELISA

PRODUCT SYNONYMS

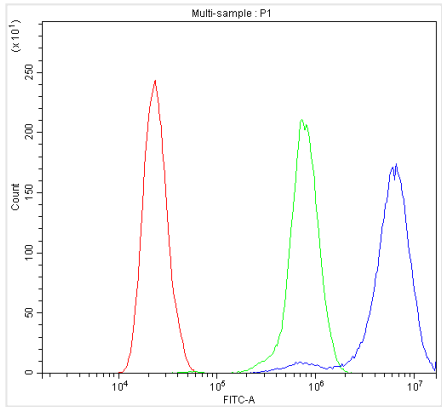
CD2AP; Polyclonal Antibody; Anti-CD2AP Picoband antibody; CD2-associated protein; Adapter protein CMS; Cas ligand with multiple SH3 domains; anti-CD2AP antibody

PRODUCT SPECIFICATIONS

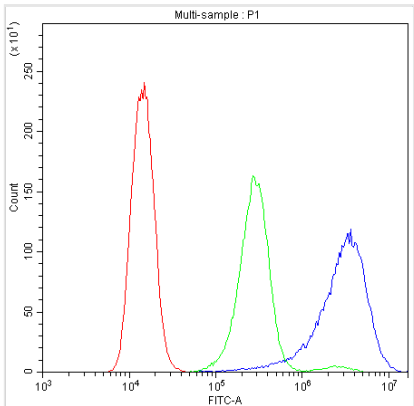
Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	639
Applicable Applications for anti-CD2AP antibody	WB (Western Blot), ELISA
Immunogen	E Coli-derived human CD2AP recombinant protein (Position: K253-K337).
Subcellular Localization	Cytoplasm, cytoskeleton. Cell projection, ruffle. Colocalizes with F-actin and BCAR1/p130Cas in membrane ruffles. Located at podocyte slit diaphragm between podocyte foot processes (By similarity). During late anaphase and telophase, concentrates in the vicinity of the midzone microtubules and in the midbody in late telophase.
Tissue Specificity	Widely expressed in fetal and adult tissues.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 4. Flow Cytometry analysis of K562 cells using anti-CD2AP antibody (AAA124667).Overlay histogram showing K562 cells stained with AAA124667 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD2AP Antibody (AAA124667,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) 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.



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of CACO-2 cells using anti-CD2AP antibody (AAA124667).Overlay histogram showing CACO-2 cells stained with AAA124667 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD2AP Antibody (AAA124667,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) 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.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of A431 cells using anti-CD2AP antibody (AAA124667).Overlay histogram showing A431 cells stained with AAA124667 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD2AP Antibody (AAA124667,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) 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 CD2AP using anti-CD2AP antibody (AAA124667).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 50ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human 293T whole cell lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: human COLO-320 whole cell lysates,Lane 5: human 22RV1 whole cell lysates,Lane 6: human SK-OV-3 whole cell lysates,Lane 7: rat stomach tissue lysates,Lane 8: rat liver tissue lysates,Lane 9: mouse liver tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-CD2AP antigen affinity purified polyclonal antibody 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 1:10000 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 CD2AP at approximately 85KD. The expected band size for CD2AP is at 71KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CD2AP antibody	Description: CD2-associated protein is a protein that in humans is encoded by the CD2AP gene. This gene encodes a scaffolding molecule that regulates the actin cytoskeleton. The protein directly interacts with filamentous actin and a variety of cell membrane proteins through multiple actin binding sites, SH3 domains, and a proline-rich region containing binding sites for SH3 domains. The cytoplasmic protein localizes to membrane ruffles, lipid rafts, and the leading edges of cells. It is implicated in dynamic actin remodeling and membrane trafficking that occurs during receptor endocytosis and cytokinesis. Haploinsufficiency of this gene is implicated in susceptibility to glomerular disease. Protein Function: Seems to act as an adapter protein between membrane proteins and the actin cytoskeleton. In collaboration with CBLC, modulates the rate of RET turnover and may act as regulatory checkpoint that limits the potency of GDNF on neuronal survival. Controls CBLC function, converting it from an inhibitor to a promoter of RET degradation. May play a role in receptor clustering and cytoskeletal polarity in the junction between T- cell and antigen-presenting cell. May anchor the podocyte slit diaphragm to the actin cytoskeleton in renal glomerulus. Also required for cytokinesis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11321634
NCBI GeneID	23607
NCBI Accession #	NP_036252.1
NCBI GenBank Nucleotide #	NM_012120.2
UniProt Accession #	Q9Y5K6; Q5VYA3; Q9UG97; A6NL34
Molecular Weight	71,451 Da
NCBI Official Full Name	CD2-associated protein
NCBI Official Synonym Full Names	CD2 associated protein
NCBI Official Symbol	CD2AP
NCBI Official Synonym Symbols	CMS
NCBI Protein Information	CD2-associated protein
UniProt Protein Name	CD2-associated protein
UniProt Gene Name	CD2AP

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/cd2ap-antibody-western-blot-elisa/124667>