

Rabbit anti-Human, Mouse CD2AP Polyclonal Antibody | anti-CD2AP antibody

CD2AP Antibody

CATALOG # AAA323368	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS ELISA, Western Blot
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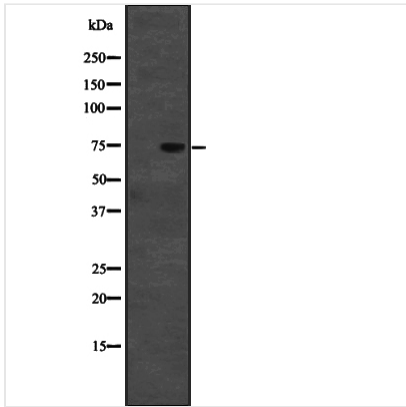
PRODUCT SYNONYMS

CD2AP; Polyclonal Antibody; CD2AP Antibody; Adapter protein CMS; AL024079; C78928; Cas ligand with multiple SH3 domains; CD2 associated protein; CD2-associated protein; CD2AP_HUMAN; CMS; Mesenchyme to epithelium transition protein with SH3 domains 1; METS 1; Mets1; anti-CD2AP antibody

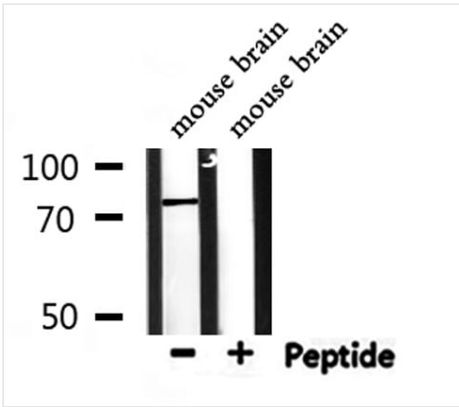
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	CD2AP antibody detects endogenous levels of total CD2AP
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	639
Applicable Applications for anti-CD2AP antibody	ELISA, WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	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.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (92%), Bovine (100%), Horse (92%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (92%)
Conjugation	Unconjugated

IMAGES



WB (Western Blot)
Western blot analysis of CD2AP expression in HeLa cell lysate. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of extracts from mouse brain, using CD2AP antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CD2AP antibody	Description: Seems to act as an adapter protein between membrane proteins and the actin cytoskeleton. 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. Function: Seems to act as an adapter protein between membrane proteins and the actin cytoskeleton (PubMed:10339567). 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 (By similarity). May play a role in receptor clustering and cytoskeletal polarity in the junction between T-cell and antigen-presenting cell (By similarity). May anchor the podocyte slit diaphragm to the actin cytoskeleton in renal glomerulus. Also required for cytokinesis (PubMed:15800069). Plays a role in epithelial cell junctions formation (PubMed:22891260). Subunit Structure: Homodimer. Interacts with F-actin, PKD2, NPHS1 and NPHS2. Interacts with WTIP. Interacts with DDN; interaction is direct. Interacts (via SH3 2 domain) with CBL (via phosphorylated C-terminus). Interacts with BCAR1/p130Cas (via SH3 domain). Interacts with MVB12A and ARHGAP17. Interacts with ANLN, CD2 and CBLB. Interacts with PDCD6IP and TSG101. Interacts with RIN3. Interacts directly with RET (inactive) and CBLC; upon RET activation by GDNF suggested to dissociate from RET as CBLC:CD2AP complex (Probable) (PubMed:10339567, PubMed:11067845, PubMed:15800069, PubMed:16678097, PubMed:16895919, PubMed:17020880, PubMed:17853893, PubMed:18753381, Ref. 29). Interacts with CGNL1 and SH3BP1; probably part of a complex at cell junctions (PubMed:22891260). Interacts with CAPZA1 (PubMed:22891260). Post-translational Modifications: Phosphorylated on tyrosine residues; probably by c-Abl, Fyn and c-Src. Similarity: The Pro-rich domain may mediate binding to SH3 domains. Potential homodimerization is mediated by the coiled coil domain.
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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	Observed: 74 kDa Predicted: 72 kDa
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/323368>