

Rabbit CAMSAP2 Polyclonal Antibody | anti-CAMSAP2 antibody

CAMSAP2 Antibody

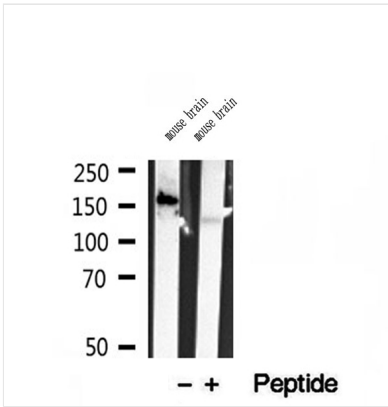
CATALOG # AAA322858	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

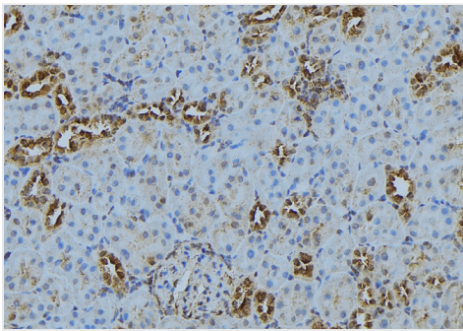
CAMSAP2; Polyclonal Antibody; CAMSAP2 Antibody; Calmodulin regulated spectrin associated protein 1 like 1; Calmodulin regulated spectrin associated protein 2; KIAA1078; MGC150680; MGC150681; RP11 93N17.1; anti-CAMSAP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CAMSAP2 antibody detects endogenous levels of CAMSAP2.
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	1489
Applicable Applications for anti-CAMSAP2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CAMSAP2.
Subcellular Location	Golgi Apparatus; Cytoskeleton
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts of mouse brain tissue, using CAMSAP2 antibody.



IHC (Immunohistochemistry)
AAA322858 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-CAMSAP2 antibody	Function: Key microtubule-organizing protein that specifically binds the minus-end of non-centrosomal microtubules and regulates their dynamics and organization (PubMed:23169647, PubMed:24486153, PubMed:24706919). Specifically recognizes growing microtubule minus-ends and autonomously decorates and stabilizes microtubule lattice formed by microtubule minus-end polymerization (PubMed:24486153, PubMed:24706919). Acts on free microtubule minus-ends that are not capped by microtubule-nucleating proteins or other factors and protects microtubule minus-ends from depolymerization (PubMed:24486153, PubMed:24706919). In addition, it also reduces the velocity of microtubule polymerization (PubMed:24486153, PubMed:24706919). Through the microtubule cytoskeleton, also regulates the organization of cellular organelles including the Golgi and the early endosomes (PubMed:27666745). Essential for the tethering, but not for nucleation of non-centrosomal microtubules at the Golgi: together with Golgi-associated proteins AKAP9 and PDE4DIP, required to tether non-centrosomal minus-end microtubules to the Golgi, an important step for polarized cell movement (PubMed:27666745). Also acts as a regulator of neuronal polarity and development: localizes to non-centrosomal microtubule minus-ends in neurons and stabilizes non-centrosomal microtubules, which is required for neuronal polarity, axon specification and dendritic branch formation (PubMed:24908486). Through the microtubule cytoskeleton, regulates the autophagosome transport (PubMed:28726242). Subunit Structure: Interacts with CAMSAP3 (By similarity). Interacts with KATNA1 and KATNB1; leading to regulate the length of CAMSAP2-decorated microtubule stretches (PubMed:24486153). Interacts with a complex formed by AKAP9 and PDE4DIP isoform 13/MMG8/SMYLE, which recruits CAMSAP2 to the Golgi (PubMed:27666745, PubMed:28814570). Interacts with MAPRE1/EB1 (PubMed:28726242, PubMed:28814570). Similarity: The CKK domain binds microtubules and specifically recognizes the minus-end of microtubules (PubMed:24486153).The MBD (microtubule-binding domain) region can recognize some features of the microtubule lattice, which might contribute to the specific decoration of growing microtubule minus-ends by CAMSAP2. Belongs to the CAMSAP1 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	663071131
NCBI GeneID	23271
NCBI Accession #	NP_001284636.1
NCBI GenBank Nucleotide #	NM_001297707.1
UniProt Accession #	Q08AD1; Q08AD2; Q6PGN8; Q96FB3; Q9UG20; Q9UPS4; B1APG6
Molecular Weight	Observed: 168 kDa Predicted: 169 kDa
NCBI Official Full Name	calmodulin-regulated spectrin-associated protein 2 isoform 1
NCBI Official Synonym Full Names	calmodulin regulated spectrin associated protein family member 2

NCBI Official Symbol	CAMSAP2
NCBI Official Synonym Symbols	CAMSAP1L1
NCBI Protein Information	calmodulin-regulated spectrin-associated protein 2
UniProt Protein Name	Calmodulin-regulated spectrin-associated protein 2
UniProt Gene Name	CAMSAP2

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://www.aaabiotech.com/polyclonal/camsap2-antibody-immunohistochemistry-western-blot-elisa/322858>