

Rabbit CAPZA1 Polyclonal Antibody | anti-CAPZA1 antibody

CAPZA1 Antibody

CATALOG # AAA322970	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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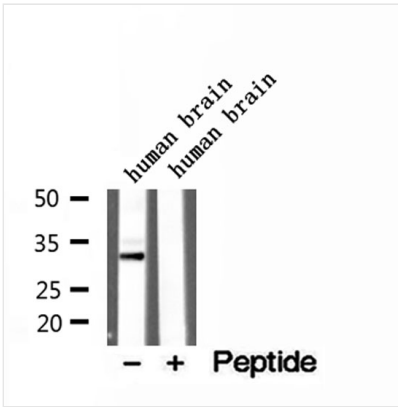
PRODUCT SYNONYMS

CAPZA1; Polyclonal Antibody; CAPZA1 Antibody; Cap Z; Cappa 1; Cappa1; Capping protein (actin filament) muscle Z line alpha 1; Capping protein alpha 1; Capping protein muscle Z line alpha 1; CapZ alpha 1; CapZ alpha-1; CAPZ; CAPZA 1; Capza1; CAZ 1; CAZ1; CAZA1_HUMAN; F actin capping protein alpha 1 subunit; F-actin-capping protein subunit alpha-1; anti-CAPZA1 antibody

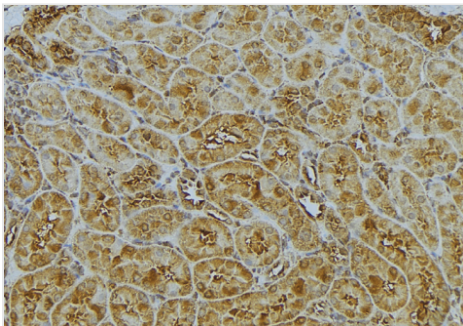
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CAPZA1 antibody detects endogenous levels of CAPZA1.
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	286
Applicable Applications for anti-CAPZA1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CAPZA1.
Subcellular Location	Cytoplasm > Cytoskeleton.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (86%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts of human brain tissue, using CAPZA1 antibody.



IHC (Immunohistochemistry)
AAA322970 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-CAPZA1 antibody	Function: F-actin-capping proteins bind in a Ca²⁺-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments. May play a role in the formation of epithelial cell junctions. Subunit Structure: Heterodimer of an alpha and a beta subunit. Interacts with S100A (By similarity). Component of the WASH complex, composed of F-actin-capping protein subunit alpha (CAPZA1, CAPZA2 or CAPZA3), F-actin-capping protein subunit beta (CAPZB), WASH (WASHC1, WASH2P, WASH3P, WASH4P, WASH5P or WASH6P), WASHC2 (WASHC2A or WASHC2C), WASHC3, WASHC4 and WASHC5. Interacts with S100B. Interacts with SH3BP1; recruits CAPZA1 to forming cell junctions (PubMed:22891260). Interacts with CD2AP (PubMed:22891260). Similarity: Belongs to the F-actin-capping protein alpha subunit family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5453597
NCBI GeneID	829
NCBI Accession #	NP_006126.1
NCBI GenBank Nucleotide #	NM_006135.2
UniProt Accession #	P52907; Q53FQ6; Q6FHD5
Molecular Weight	Observed: 33 kD Predicted: 33 kDa
NCBI Official Full Name	F-actin-capping protein subunit alpha-1
NCBI Official Synonym Full Names	capping actin protein of muscle Z-line subunit alpha 1
NCBI Official Symbol	CAPZA1
NCBI Official Synonym Symbols	CAPZ; CAZ1; CAPPA1
NCBI Protein Information	F-actin-capping protein subunit alpha-1
UniProt Protein Name	F-actin-capping protein subunit alpha-1
UniProt Gene Name	CAPZA1

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.

