

CAPS1 Antibody

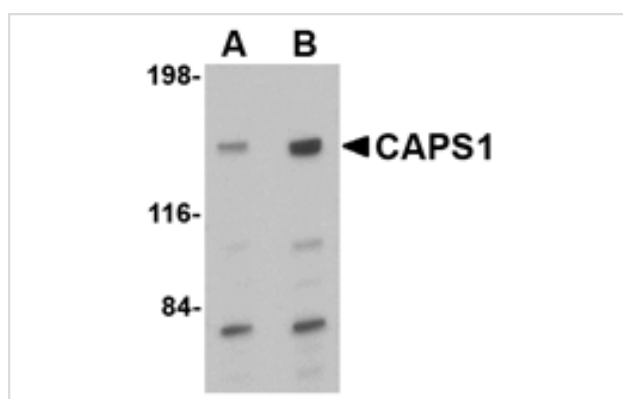
Catalog No: #24668

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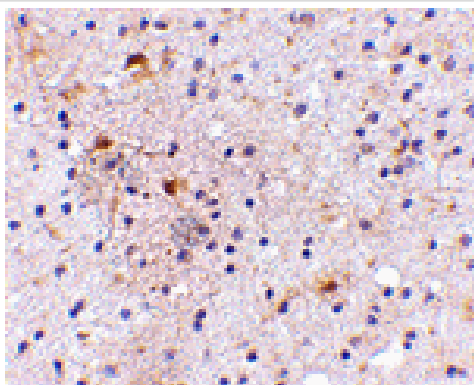
Description

Product Name	CAPS1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Specificity	Numerous isoforms of CAPS1 are known to exist; the lower molecular weight bands seen in the immunoblot image are likely to be these isoforms. This CAPS1 antibody is predicted to be specific to CAPS1 and not recognize CAPS2.
Immunogen Type	Peptide
Immunogen Description	Raised against a 20 amino acid peptide near the carboxy terminus of the human CAPS1.
Target Name	CAPS1
Other Names	Calcium-dependent secretion activator 1, CADPS1
Accession No.	Swiss-Prot:Q9ULU8Gene ID:8618
Uniprot	Q9ULU8
GeneID	8618;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western blot analysis of CAPS1 in rat brain tissue lysate with CAPS1 antibody at (A) 0.5 and (B) 1 ug/mL.



Immunohistochemistry of CAPS1 in human brain with CAPS1 antibody at 5 ug/mL.

Background

CAPS1 and its related protein CAPS2 encode novel neural/endocrine-specific cytosolic and peripheral membrane proteins. Both are essential components of the synaptic vesicle priming machinery and are required for the Ca^{2+} -regulated exocytosis of secretory vesicles; CAPS-deficient neurons contain no or very few fusion competent synaptic vesicles, causing a selective impairment of fast phasic transmitter release. CAPS1 acts at a stage in exocytosis that follows ATP-dependent priming, which involves the essential synthesis of phosphatidylinositol 4, 5-bisphosphate and is thought to be a specific regulator of large dense-core vesicle fusion.

Note: This product is for in vitro research use only