Datasheet for ABIN499523

anti-CADPS antibody (C-Term)

2 Images

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Overview

Quantity:	0.1 mg
Target:	CADPS
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CADPS antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	CAPS1 antibody was raised against a 20 amino acid peptide near the carboxy terminus of the human CAPS1.
Isotype:	IgG
Specificity:	This antibody reacts to CAPS1.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	CADPS
Alternative Name:	CADPS (CADPS Products)

Target Details

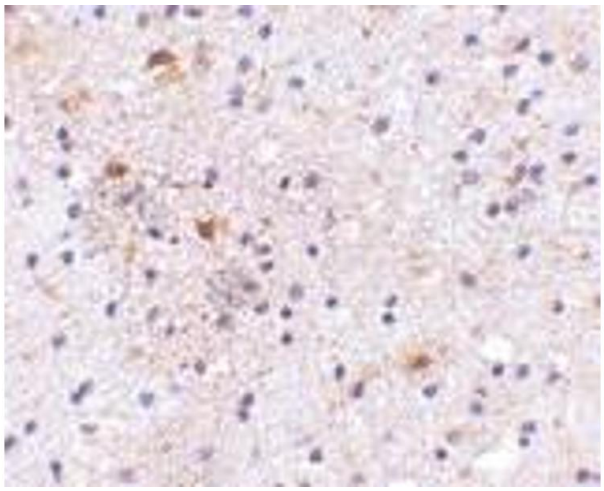
Background:	CAPS1 and its related protein CAPS2 encode novel neural/endocrine-specific cytosolic and peripheral membrane proteins. Both are essential components of the synaptic vesicle priming machinery and are required for the Ca2+-regulated exocytosis of secretory vesicles, CAPS-deficienct neurons 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. 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.Synonyms: CAPS, CAPS-1, CAPS1, Calcium-dependent activator protein for secretion 1, Calcium-dependent secretion activator 1, KIAA1121
Gene ID:	8618
NCBI Accession:	NP_899631
UniProt:	Q9ULU8
Pathways:	Synaptic Vesicle Exocytosis

Application Details

Application Notes:	ELISA. Western Blot: CAPS1 antibody can be used for detection of CAPS1 at 0.5 - 1 µg/mL. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

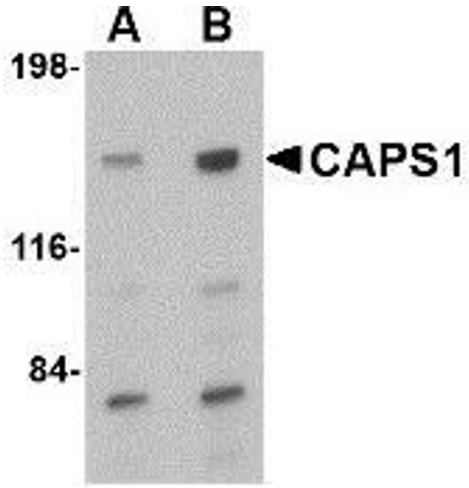
Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of CAPS1 in human brain with CAPS1 antibody at 5 µg/ml.



Western Blotting

Image 2. Western blot analysis of CAPS1 in rat brain tissue lysate with AP30178PU-N CAPS1 antibody at (A) 0.5 and (B) 1 µg/ml.