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Product datasheet for TA306561

CAPS1 (CADPS) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.25 - 0.5 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	CAPS1 antibody was raised against a 21 amino acid peptide near the amino terminus of the human CAPS1.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	Ca2+ dependent secretion activator
Database Link:	NP_899631 Entrez Gene 8618 Human Q9ULU8
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. This CAPS1 antibody is predicted to be specific to CAPS1 and not recognize CAPS2.

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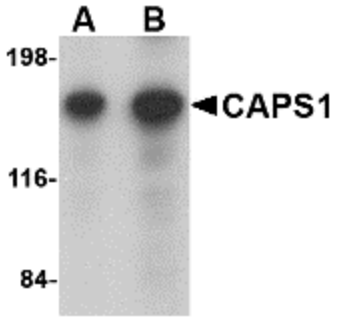
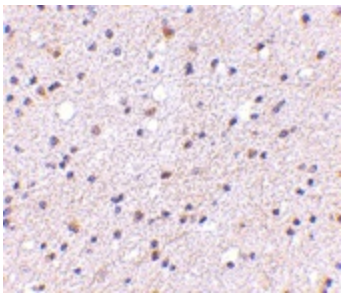
Synonyms: CADPS1; CAPS; CAPS1; UNC-31

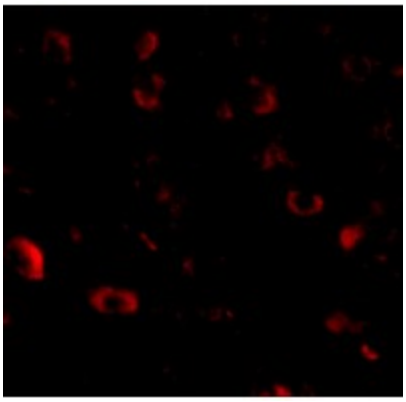
Product images:



Western blot analysis of CAPS1 in rat brain tissue lysate with CAPS1 antibody at (A) 0.25 and (B) 0.5 ug/ml. Below: Immunohistochemistry of CAPS1 in human brain with CAPS1 antibody at 5 ug/ml.



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



Immunofluorescence of CAPS1 in human brain tissue with CAPS1 antibody at 20 ug/mL.