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# Product datasheet for TA306560

## CAPS1 (CADPS) Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | IF, IHC, WB |
| **Recommended Dilution:** | WB: 0.5 - 1 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 20 amino acid peptide near the carboxy 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<br>Entrez Gene 8618 Human<br>Q9ULU8 |

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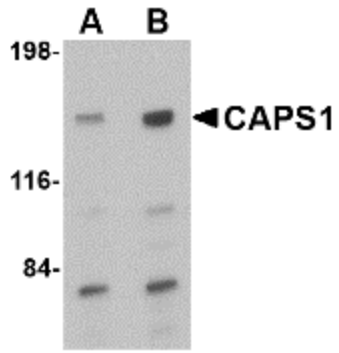
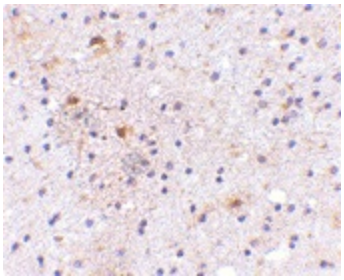
**Background:** CAPS1 and its related protein CAPS2 encode novel neural/endocrine-specific cytosolic and peripheral membrane proteins. Both are essential components of the synaptic vesicle priming machinery and are required for the Ca2+-regulated exocytosis of secretory vesicles; CAPS-deficienct neurons 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:** CADPS1; CAPS; CAPS1; UNC-31

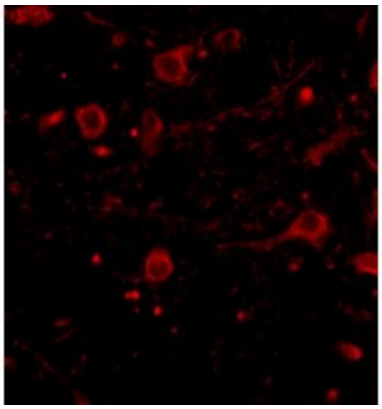
## Product images:




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