

**Anti-Neuronal Calcium Sensor 1 (RABBIT) Antibody**  
**Neuronal Calcium Sensor 1 Antibody**  
**Catalog # ASR5696**

**Specification**

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**Anti-Neuronal Calcium Sensor 1 (RABBIT) Antibody - Product Information**

Host	Rabbit
Conjugate	Unconjugated
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Anti-Neuronal Calcium Sensor 1 antibody is tested for ELISA and immunohistochemistry and useful for Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~21kDa corresponding to the appropriate cell lysate or extract.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Neuronal Calcium Sensor 1 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-terminus of human Neuronal Calcium Sensor 1 .
Stabilizer	50% (v/v) Glycerol

**Anti-Neuronal Calcium Sensor 1 (RABBIT) Antibody - Additional Information**

**Gene ID** 23413

**Purity**

Anti-Neuronal Calcium Sensor 1 was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with human, chicken, frog, and rat based on 100% sequence homology. Cross-reactivity with Neuronal Calcium Sensor 1 from other sources has not been determined.

**Storage Condition**

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

## Anti-Neuronal Calcium Sensor 1 (RABBIT) Antibody - Protein Information

**Name** NCS1

**Synonyms** FLUP, FREQ

### Function

Neuronal calcium sensor, regulator of G protein-coupled receptor phosphorylation in a calcium dependent manner. Directly regulates GRK1 (RHOK), but not GRK2 to GRK5. Can substitute for calmodulin (By similarity). Stimulates PI4KB kinase activity (By similarity). Involved in long-term synaptic plasticity through its interaction with PICK1 (By similarity). May also play a role in neuron differentiation through inhibition of the activity of N-type voltage-gated calcium channel (By similarity).

### Cellular Location

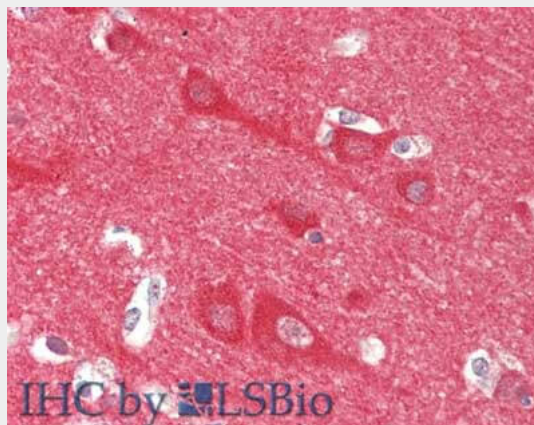
Golgi apparatus. Postsynaptic density. Cytoplasm, perinuclear region. Cytoplasm {ECO:0000250|UniProtKB:P62168}. Cell membrane; Peripheral membrane protein. Membrane {ECO:0000250|UniProtKB:P62168}; Lipid-anchor Note=Associated with Golgi stacks. Post-synaptic densities of dendrites, and in the pre-synaptic nerve terminal at neuromuscular junctions. {ECO:0000305, ECO:0000305|PubMed:17555535}

## Anti-Neuronal Calcium Sensor 1 (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Neuronal Calcium Sensor 1 (RABBIT) Antibody - Images



Immunohistochemistry of Rabbit anti-NCS1 / NCS-1 antibody. Tissue: Brain, cortex. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: NCS1 / NCS-1

antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: NCS1 / NCS-1 as precipitated red signal with hematoxylin purple nuclear counterstain.

#### **Anti-Neuronal Calcium Sensor 1 (RABBIT) Antibody - Background**

Neuronal Calcium Sensor 1 antibody recognizes members of the neuronal calcium sensor gene family, which encode calcium-binding proteins expressed predominantly in neurons. The protein encoded by this gene regulates G protein-coupled receptor phosphorylation in a calcium-dependent manner and can substitute for calmodulin. This protein is thought to be associated with secretory granules and may be involved in the regulation of neurosecretion. Anti-Neuronal Calcium Sensor 1 antibody is ideal for researchers interested in Neuroscience research.