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Anti-Neuronal Calcium Sensor 1 (RABBIT) Antibody

Neuronal Calcium Sensor 1 Antibody
Catalog # ASR5696

Specification

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.

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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).

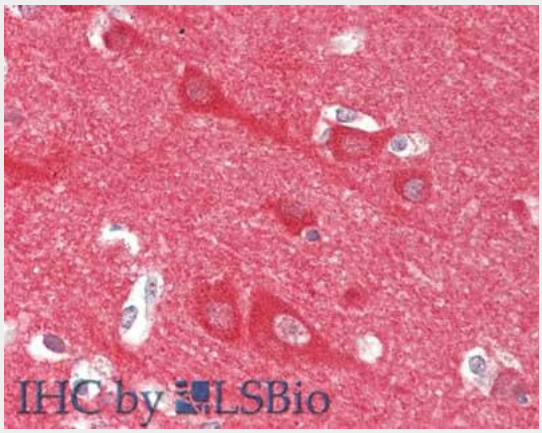
Cellular Location
Golgi apparatus. Postsynaptic density. Cytoplasm, perinuclear region. Cytoplasm {ECO:0000250|UniProtKB:P62168}. Cell membrane; Peripheral membrane protein. Membrane {ECO:0000250|UniProtKB:P62168}; Lipid-anchor Note=Associated with Golgi stacks. Post-synaptic densities of dendrites, 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 Cytomety
- 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.