

NCS1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP1551c**Specification**

NCS1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [P62166](#)
Other Accession [P36610](#)

NCS1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 23413

Other Names

Neuronal calcium sensor 1, NCS-1, Frequenin homolog, Frequenin-like protein, Frequenin-like ubiquitous protein, NCS1, FLUP, FREQ

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1551c](/product/products/AP1551c) was selected from the Center region of human NCS1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NCS1 Antibody (Center) Blocking Peptide - 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}

NCS1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NCS1 Antibody (Center) Blocking Peptide - Images

NCS1 Antibody (Center) Blocking Peptide - Background

NCS1 is a member of the neuronal calcium sensor gene family, which encode calcium-binding proteins expressed predominantly in neurons. NCS1 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.

NCS1 Antibody (Center) Blocking Peptide - References

Koh, P.O., et al., Proc. Natl. Acad. Sci. U.S.A. 100(1):313-317 (2003). Bourne, Y., et al., J. Biol. Chem. 276(15):11949-11955 (2001). Burgoyne, R.D., et al., Biochem. J. 353 (Pt 1), 1-12 (2001).