

# NCS1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP1551c

## Product Information

---

<b>Application</b>	WB, IHC-P, FC, E
<b>Primary Accession</b>	<a href="#">P62166</a>
<b>Other Accession</b>	<a href="#">Q91614</a> , <a href="#">P62168</a> , <a href="#">Q8BNY6</a> , <a href="#">P62167</a> , <a href="#">Q2V8Y7</a> , <a href="#">NP_055101.2</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Bovine, Chicken, Mouse, Rat, Xenopus
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB0495
<b>Calculated MW</b>	21879
<b>Antigen Region</b>	118-144

## Additional Information

---

<b>Gene ID</b>	23413
<b>Other Names</b>	Neuronal calcium sensor 1, NCS-1, Frequenin homolog, Frequenin-like protein, Frequenin-like ubiquitous protein, NCS1, FLUP, FREQ
<b>Target/Specificity</b>	This NCS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 118-144 amino acids from the Central region of human NCS1.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	NCS1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<b>Name</b>	NCS1
<b>Synonyms</b>	FLUP, FREQ

<b>Function</b>	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).
<b>Cellular Location</b>	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:1755535}

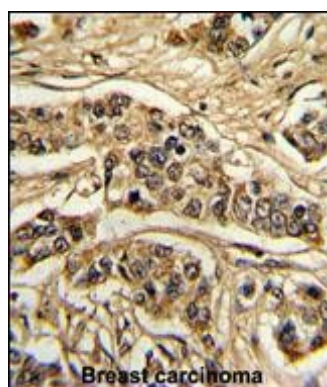
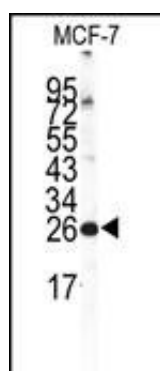
## Background

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.

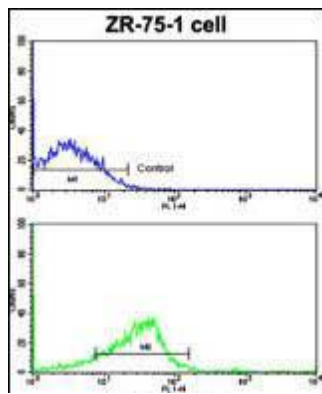
## References

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).

## Images



Flow cytometric analysis of ZR-75-1 cells using NCS1



Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.