

## Product datasheet for **AP07405PU-N**

### Frequenin (NCS1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Immunofluorescence.</b> <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <b>Western Blot.</b>
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Recombinant Mouse NCS1 protein
Specificity:	This antibody recognizes Frequenin (recombinant from Mouse with extensive post-translational modifications).
Formulation:	0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction Stabilizer: None Preservative: 0.01% Sodium Azide
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	neuronal calcium sensor 1
Database Link:	<a href="#">Entrez Gene 23413 Human P62166</a>



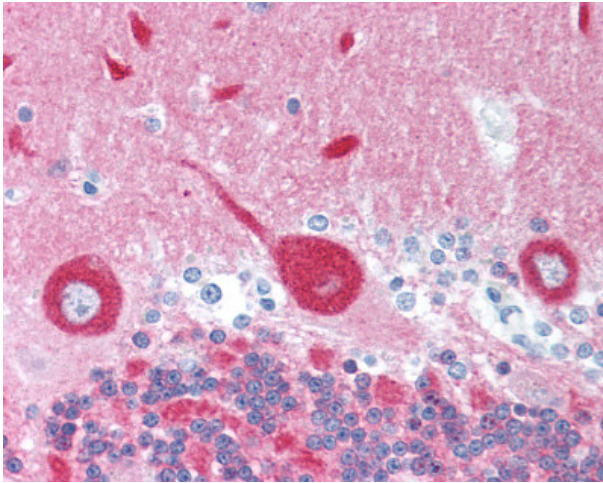
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**Background:**

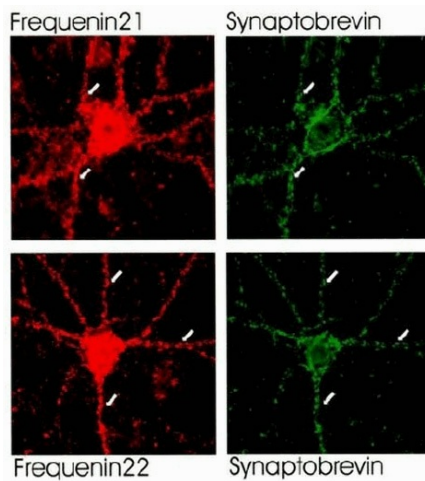
This gene is a member of the neuronal calcium sensor gene family, which encode calcium-binding proteins expressed predominantly in neurons. The protein encoded by this gene regulates G protein-coupled receptor phosphorylation in a calcium-dependent manner and can substitute for calmodulin. The protein is associated with secretory granules and modulates synaptic transmission and synaptic plasticity. Multiple transcript variants encoding different isoforms have been found for this gene.

**Synonyms:**

NCS-1, FREQ, FLUP

**Product images:**


Brain, cerebellum: Formalin-Fixed Paraffin-Embedded (FFPE)



Hippocampal neurons were prepared from 17 d old NMRI mice and grown as described previously. The figure shows the distribution of neuronal calcium sensor-1 (NCS-1) (red) and synaptobrevin (green) in hippocampal cell cultures after 19 d in vitro. Numerous synapses immunoreactive for synaptobrevin also show NCS-1 immunoreactivity. NCS-1 derived from invertebrate homologs has been referred to as frequenin.