

Rabbit Anti-NCS1/PE Conjugated antibody

SL11977R-PE

Product Name	Anti-NCS1/PE
Chinese Name	PE 标记的神经钙传感蛋白 1/Frequenin 抗体
Alias	9430075O15Rik; A730032G13Rik; AI836659; DKFZp761L1223; FLUP; Frequenin; Frequenin homolog (Drosophila); Frequenin homolog; Frequenin like protein; Frequenin, Drosophila, homolog of; Frequenin-like protein; Frequenin-like ubiquitous protein; Mfreq; NCS 1; NCS-1; ncs1; NCS1_HUMAN; Neuronal calcium sensor 1; Neuronal Calcium Sensor 1.
Research Area	Cell biology Neurobiology Signal transduction Binding protein
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Cow) IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	22kDa
Cellular localization	The cell membrane
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human NCS1 (1-50aa)
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	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. [provided by RefSeq, Jul 2008]

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.

Subunit:

Interacts with KCND2. Interacts in a calcium-independent manner with PI4KB. This binding competes with CALN2/CABP7 binding to PI4KB (By similarity). Interacts with ARF1, ARF3, ARF5 and ARF6. Interacts in a calcium-dependent manner with PICK1 (via AH domain) (By similarity). Interacts with IL1RAPL1.

Subcellular Location:

Golgi apparatus, Golgi stack membrane. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Cytoplasm, perinuclear region. Cell membrane. Associated with Golgi stacks. Post-synaptic densities of dendrites, and in the pre-synaptic nerve terminal at neuromuscular junctions.

Similarity:

Belongs to the recoverin family.
Contains 4 EF-hand domains.

Database links:

[Entrez Gene: 23413](#) Human

[Entrez Gene: 14299](#) Mouse

[Entrez Gene: 65153](#) Rat

[Omim: 603315](#) Human

[SwissProt: P62166](#) Human



[SwissProt: Q8BNY6](#) Mouse

[SwissProt: P62168](#) Rat

[Unigene: 642946](#) Human

[Unigene: 249318](#) Mouse

[Unigene: 62653](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.