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NCS1 Recombinant Rabbit mAb

Catalog # AP100043

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P62166
Other Accession	P62166
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	21879
Physical State	Liquid
Immunogen	A synthesized peptide derived from human NCS 1
Epitope Specificity	150-190
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the recoverin family. Contains 4 EF-hand domains.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	23413
Other Names	FLUP; FREQ; 9430075O15Rik; A730032G13Rik; Mfreq; NCS-1; NCS1_HUMAN; NCS1; Frequenin homolog; Frequenin-like protein; Frequenin-like ubiquitous protein; NCS1_MOUSE; NCS1_RAT; neuronal calcium sensor 1; frequenin (Drosophila) homolog; frequenin homolog (Drosophila)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,Flow-Cyt=1:50-100,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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}

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