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KD-Validated Anti-Neuronal Calcium Sensor 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1582

Specification

KD-Validated Anti-Neuronal Calcium Sensor 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P62166
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 22 kDa , observed , 21 kDa KDa**
Gene Name	**NCS1**
Aliases	**NCS1; Neuronal Calcium Sensor 1; NCS-1; FREQ; Frequenin-Like Ubiquitous Protein 1; Frequenin-Like Protein 1 ; Frequenin Homolog; FLUP; Frequenin (Drosophila) Homolog; Frequenin Homolog (Drosophila)**
Immunogen	**A synthesized peptide derived from human NCS1**

KD-Validated Anti-Neuronal Calcium Sensor 1 Rabbit Monoclonal Antibody - 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

KD-Validated Anti-Neuronal Calcium Sensor 1 Rabbit Monoclonal Antibody - 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

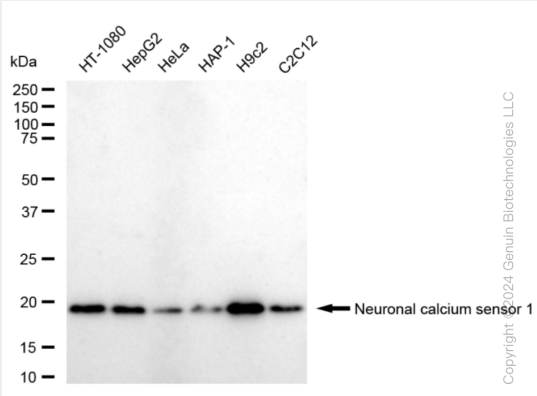
{ECO:0000250|UniProtKB:P62168}; Lipid-anchor Note=Associated with Golgi stacks. Post-synaptic densities of dendrites, and in the pre-synaptic nerve terminal at neuromuscular junctions. {ECO:0000305, ECO:0000305|PubMed:17555535}

KD-Validated Anti-Neuronal Calcium Sensor 1 Rabbit Monoclonal Antibody - Protocols

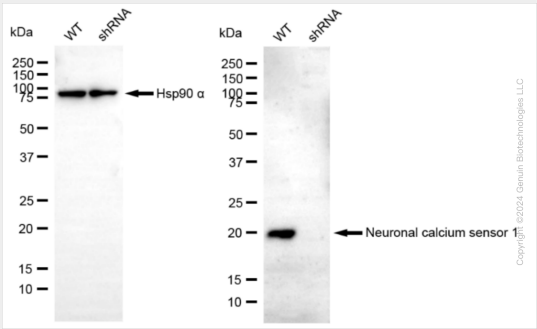
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Neuronal Calcium Sensor 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Neuronal calcium sensor 1 antibody (Cat#AGI1582). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Neuronal calcium sensor 1 antibody (Cat#AGI1582, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Neuronal calcium sensor 1 antibody (Cat#AGI1582). Neuronal calcium sensor 1 expression in wild type (WT) and Neuronal calcium sensor 1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Neuronal calcium sensor 1 antibody (Cat#AGI1582, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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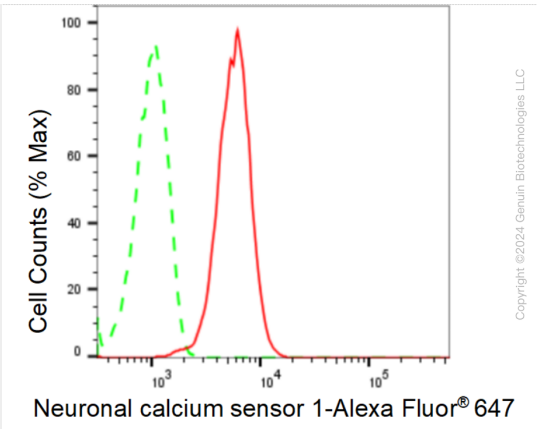
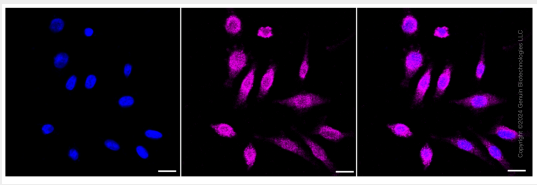


Flow cytometric analysis of Neuronal calcium sensor 1 expression in HepG2 cells using Neuronal calcium sensor 1 antibody (Cat#AGI1582, 1:2,000). Green, isotype control; red, Neuronal calcium sensor 1.



Immunocytochemical staining of HepG2 cells with anti-Neuronal calcium sensor 1 antibody (Cat#AGI1582, 1:1,000). Nuclei were stained blue with DAPI; Neuronal calcium sensor 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.