

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

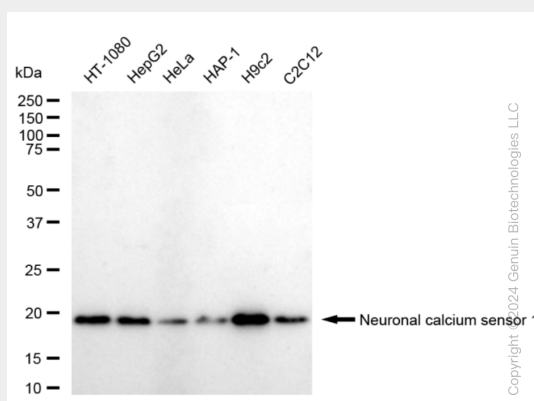
{ECO:0000250|UniProtKB:P62168}; Lipid-anchor Note=Associated with Golgi stacks. Post-synaptic densities of dendrites, and in the pre-synaptic nerve terminal at neuromuscular junctions.
{ECO:0000305, ECO:0000305|PubMed:17555535}

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

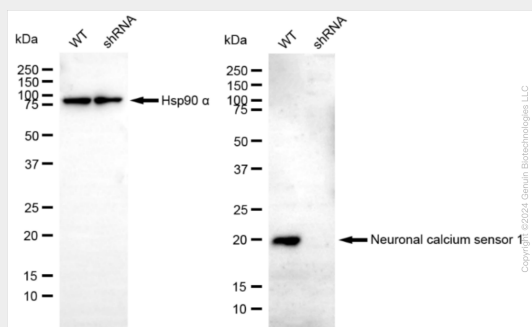
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

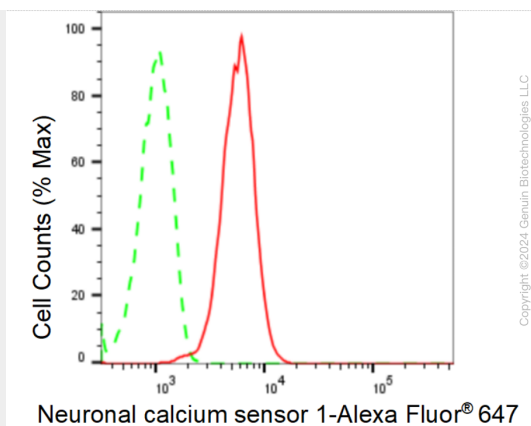
KD-Validated Anti-Neuronal Calcium Sensor 1 Rabbit Monoclonal Antibody - Images



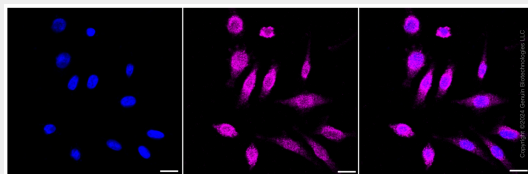
Western blotting analysis using anti-Neuronal calcium sensor 1 antibody (Cat#AGI1582). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Neuronal calcium sensor 1 antibody (Cat#AGI1582, 1:5,000) and HRP-conjugated goat anti-rabbit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



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.