

NSG1 Antibody (aa112-161)
Rabbit Polyclonal Antibody
Catalog # ALS15989**Specification**

NSG1 Antibody (aa112-161) - Product Information

Application	WB
Primary Accession	P42857
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21kDa KDa

NSG1 Antibody (aa112-161) - Additional Information**Gene ID** 27065**Other Names**

Neuron-specific protein family member 1, Brain neuron cytoplasmic protein 1, NSG1, D4S234

Target/Specificity

NSG1 Antibody detects endogenous levels of total NSG1 protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

NSG1 Antibody (aa112-161) is for research use only and not for use in diagnostic or therapeutic procedures.

NSG1 Antibody (aa112-161) - Protein Information**Name** NSG1 ([HGNC:18790](#))**Function**

Plays a role in the recycling mechanism in neurons of multiple receptors, including AMPAR, APP and L1CAM and acts at the level of early endosomes to promote sorting of receptors toward a recycling pathway. Regulates sorting and recycling of GRIA2 through interaction with GRIP1 and then contributes to the regulation of synaptic transmission and plasticity by affecting the recycling and targeting of AMPA receptors to the synapse (By similarity). Is required for faithful sorting of L1CAM to axons by facilitating trafficking from somatodendritic early endosome or the recycling endosome (By similarity). In an other hand, induces apoptosis via the activation of CASP3 in response to DNA damage (PubMed:20599942, PubMed:20878061).

Cellular Location

Membrane {ECO:0000250|UniProtKB:P02683}; Single- pass type II membrane protein

{ECO:0000250|UniProtKB:P02683}. Golgi apparatus, trans-Golgi network membrane {ECO:0000250|UniProtKB:P02683}. Endosome membrane {ECO:0000250|UniProtKB:P02683}. Cell projection, dendrite {ECO:0000250|UniProtKB:P02683}. Early endosome membrane {ECO:0000250|UniProtKB:P02683}. Late endosome membrane {ECO:0000250|UniProtKB:P02683}. Lysosome lumen {ECO:0000250|UniProtKB:P02683}. Recycling endosome membrane {ECO:0000250|UniProtKB:P02683}. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:P02683}. Golgi apparatus, Golgi stack membrane {ECO:0000250|UniProtKB:P02683}. Endosome, multivesicular body membrane {ECO:0000250|UniProtKB:P02683}. Endoplasmic reticulum membrane. Note=Endocytosed from the cell surface, thus enters into early endosomes, trafficks to late endosomes and degrades in lysosomes (By similarity). Endoplasmic reticulum targeting is essential for apoptosis (PubMed:20599942). Found in both stationary and motile endosomes. A previous study supports a type I membrane protein topology (By similarity) {ECO:0000250|UniProtKB:P02683, ECO:0000250|UniProtKB:Q62092, ECO:0000269|PubMed:20599942}

Volume

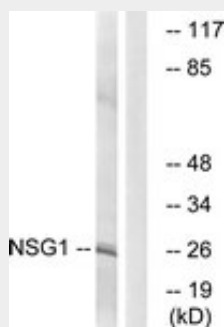
50 µl

NSG1 Antibody (aa112-161) - 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](#)

NSG1 Antibody (aa112-161) - Images



Western blot of extracts from COLO cells, using NSG1 Antibody.

NSG1 Antibody (aa112-161) - References

Carlock L.,et al.Brain Res. Mol. Brain Res. 42:202-212(1996).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).