

# Product datasheet

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# ARG42230 anti-NSG1 / D4S234E antibody

Package: 50 μg Store at: -20°C

## **Summary**

Product Description Goat Polyclonal antibody recognizes NSG1 / D4S234E

Tested Reactivity Hu, Ms, Rat

Predict Reactivity Cow

Tested Application ICC/IF, WB

Host Goat

Clonality Polyclonal

Isotype IgG

Target Name NSG1 / D4S234E

Species Rat

Immunogen Synthetic peptide around the N-terminus of Rat NSG1 / D4S234E. (EKGTKQPLLEDGFD-C) (NP\_077042.2)

Conjugation Un-conjugated

Alternate Names NEEP21; Neuron-specific protein family member 1; D4S234E; Brain neuron cytoplasmic protein 1; P21;

D4S234

### **Application Instructions**

Application table	Application	Dilution
	ICC/IF	1 - 5 μg/ml
	WB	0.1 - 0.3 μg/ml
Application Note	WB: Recommend incubate at RT for 1h.  * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Fetal Mouse brain	
Observed Size	~ 21 kDa	

#### **Properties**

Form Liquid

Purification Ammonium sulphate precipitation followed by affinity purification with immunogen.

Buffer Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.

Preservative 0.02% Sodium azide

Stabilizer 0.5% BSA

Concentration 0.5 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol NSG1

Gene Full Name neuron specific gene family member 1

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). [UniProt]

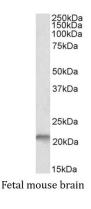
Calculated Mw 21 kDa

Cellular Localization Membrane; Single-pass type II membrane protein. Golgi apparatus, trans-Golgi network membrane.

Endosome membrane. Cell projection, dendrite. Early endosome membrane. Late endosome membrane. Lysosome lumen. Recycling endosome membrane. Cytoplasmic vesicle membrane. Golgi apparatus, Golgi stack membrane. Endosome, multivesicular body membrane. Endoplasmic reticulum

membrane. [UniProt]

#### **Images**



#### ARG42230 anti-NSG1 / D4S234E antibody WB image

Western blot: 35  $\mu g$  of fetal mouse brain lysate (in RIPA buffer) stained with ARG42230 anti-NSG1 / D4S234E antibody at 0.1  $\mu g/ml$  dilution and incubated at RT for 1 hour.