

Rabbit NSG1 Polyclonal Antibody | anti-NSG1 antibody

NSG1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324904	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

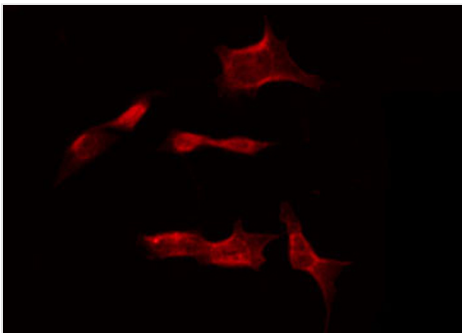
PRODUCT SYNONYMS

NSG1; Polyclonal Antibody; NSG1 Antibody; Brain neuron cytoplasmic protein 1; Brain specific mRNA b; Bsmrb; Neuron-specific gene family member 1; Neuron-specific protein family member 1; NSG1_HUMAN; PEP1; anti-NSG1 antibody

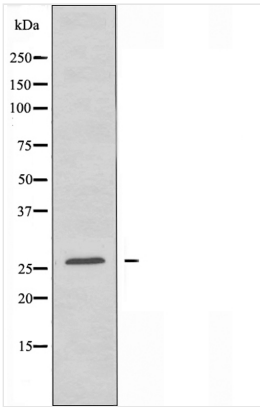
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	NSG1 antibody detects endogenous levels of total NSG1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	185
Applicable Applications for anti-NSG1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Golgi Apparatus Membrane.
Tissue Specificity	Up-regulated by TP53 after DNA damage (PubMed:20599942). Up-regulated by genotoxic stress (PubMed:20878061).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (82%), Bovine (91%), Horse (91%), Sheep (91%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA324904 staining COLO205 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from COLO cells, using NSG1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-NSG1 antibody	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). Subunit Structure: Forms a complex with GRIP1, GRIA2 and STX12 through direct interaction with GRIP1; controls the intracellular fate of AMPAR and the endosomal sorting of the GRIA2 subunit toward recycling and membrane targeting. Interacts with STX12 (By similarity). Interacts with APP; could regulate APP processing (By similarity). Similarity: Belongs to the NSG family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	91932788
NCBI GeneID	27065
NCBI Accession #	NP_001035190.1
NCBI GenBank Nucleotide #	NM_001040101.1
UniProt Accession #	P42857; Q49AQ1; B4DXC5
Molecular Weight	Observed: 26 kD Predicted: 21 kDa
NCBI Official Full Name	neuronal vesicle trafficking-associated protein 1 isoform a
NCBI Official Synonym Full Names	neuronal vesicle trafficking associated 1
NCBI Official Symbol	NSG1
NCBI Official Synonym Symbols	P21; D4S234; NEEP21; D4S234E
NCBI Protein Information	neuronal vesicle trafficking-associated protein 1
UniProt Protein Name	Neuronal vesicle trafficking-associated protein 1
UniProt Gene Name	NSG1
UniProt Synonym Gene Names	D4S2341 PublicationManual assertion based on opinion iniRef.5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nsg1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324904>