

Rabbit NSG1 Polyclonal Antibody | anti-NSG1 antibody

Anti-NSG1 Antibody Picoband

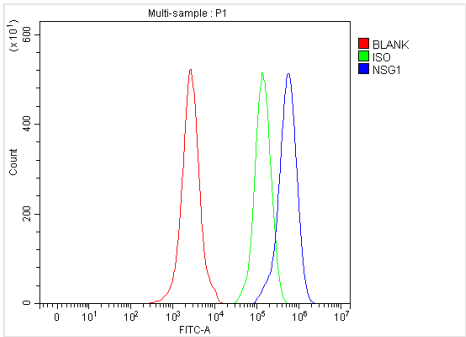
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127746	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

NSG1; Polyclonal Antibody; Anti-NSG1 Antibody Picoband; negative elongation factor complex member B; Negative elongation factor B; NELF-B; Cofactor of BRCA1; NELFB; COBRA1; KIAA1182; anti-NSG1 antibody

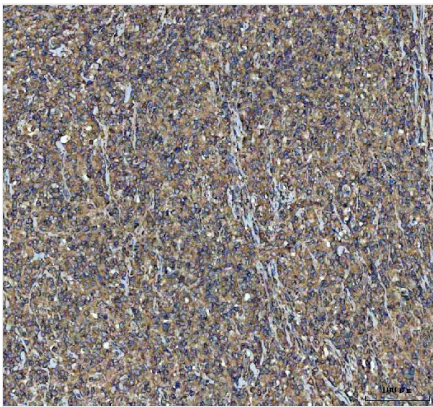
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed.Expressed in heart, brain, lung, placenta, liver, skeletal muscle, kidney and pancreas.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NSG1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E coli-derived human NSG1 recombinant protein (Position: M1-Q176).
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Essential component of the NELF complex, a complex that negatively regulates the elongation of transcription by RNA polymerase II. The NELF complex, which acts via an association with the DSIF complex and causes transcriptional pausing, is counteracted by the P-TEFb kinase complex. The NELF complex is involved in HIV-1 latency possibly involving recruitment of PCF11 to paused RNA polymerase II. Binds RNA which may help to stabilize the NELF complex on nucleic acid. In vitro, binds weakly to the HIV-1 TAR RNA which is located in the long terminal repeat (LTR) of HIV-1. May be able to induce chromatin unfolding.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



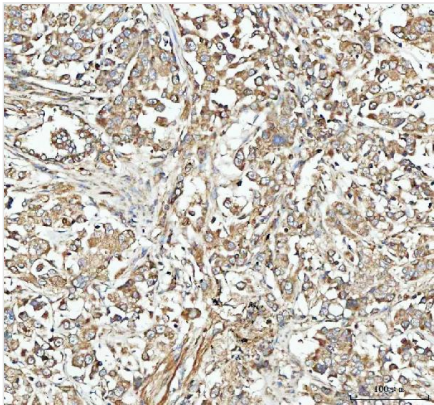
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of JK cells using anti-NSG1 antibody (AAA127746).Overlay histogram showing JK cells stained with AAA127746 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NSG1 Antibody (AAA127746, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



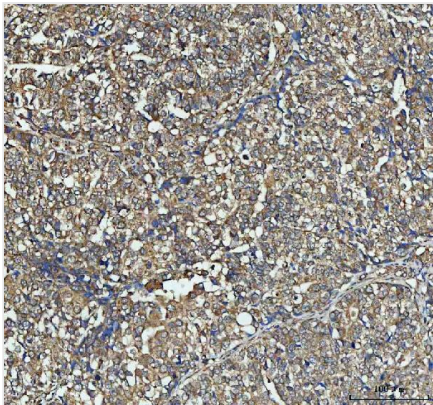
IHC (Immunohistochemistry)

Figure 4. IHC analysis of NSG1 using anti-NSG1 antibody (AAA127746).NSG1 was detected in a paraffin-embedded section of human large B-cell lymphoma of the colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NSG1 Antibody (AAA127746) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



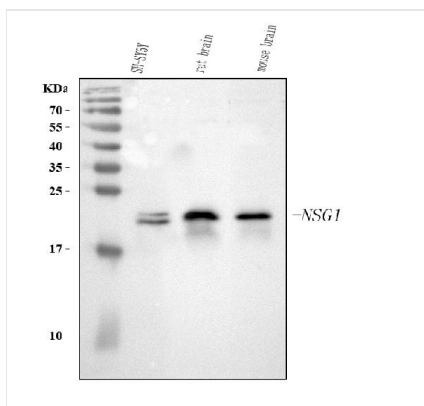
IHC (Immunohistochemistry)

Figure 3. IHC analysis of NSG1 using anti-NSG1 antibody (AAA127746).NSG1 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NSG1 Antibody (AAA127746) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of NSG1 using anti-NSG1 antibody (AAA127746).NSG1 was detected in a paraffin-embedded section of human bladder urothelial carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NSG1 Antibody (AAA127746) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of NSG1 using anti-NSG1 antibody (AAA127746). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human SH-SY5Y whole cell lysates, Lane 2: rat brain tissue lysates, Lane 3: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NSG1 antigen affinity purified polyclonal antibody (#AAA127746) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NSG1 at approximately 21 kDa. The expected band size for NSG1 is at 21 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NSG1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-NSG1 antibody	Primary Antibodies ; Epigenetics and Nuclear Signaling ; Transcription
References	1. Carlock, L., Vo, T., Lorincz, M., Walker, P. D., Bessert, D., Wisniewski, D., Dunbar, J. C. Variable subcellular localization of a neuron-specific protein during NTER 2 differentiation into post-mitotic human neurons. Molec. Brain Res. 42: 202-212, 1996. 2. Carlock, L., Wisniewski, D., Lorincz, M., Pandrangi, A., Vo, T. An estimate of the number of genes in the Huntington disease gene region and the identification of 13 transcripts in the 4p16.3 segment. Genomics 13: 1108-1118, 1992.

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
Molecular Weight	20,913 Da
NCBI Official Full Name	neuron-specific protein family member 1
NCBI Official Symbol	NSG1
NCBI Official Synonym Symbols	P21; D4S234; NEEP21; D4S234E
NCBI Protein Information	neuron-specific protein family member 1; brain neuron cytoplasmic protein 1; carboxyterminally EE-tagged neuron-enriched endosomal 21 kDa protein

UniProt Protein Name	Neuron-specific protein family member 1
UniProt Gene Name	NSG1
UniProt Synonym Gene Names	D4S234
UniProt Entry Name	NSG1_HUMAN

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-flow-cytometry-western-blot-immunohistochemistry-elisa/127746>