

Rabbit NSUN6 Polyclonal Antibody | anti-NSUN6 antibody

Anti-NSUN6 Antibody Picoband

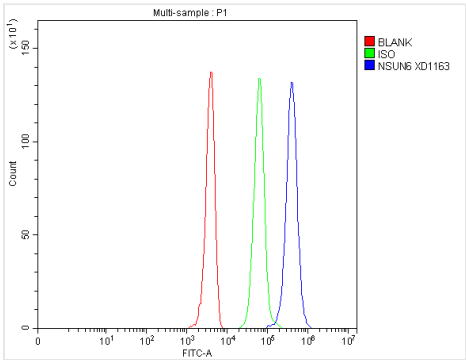
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128202	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

NSUN6; Polyclonal Antibody; Anti-NSUN6 Antibody Picoband; tRNA (cytosine(72)-C(5))-methyltransferase NSUN6; NOP2/Sun RNA methyltransferase 6; NOPD1; tRNA; cytosine(72)-C(5)-methyltransferase NSUN6; EC 2.1.1.1.-; NOL1/NOP2/Sun and PUA domain-containing protein 1; NOL1/NOP2/Sun domain family member 6; anti-NSUN6 antibody

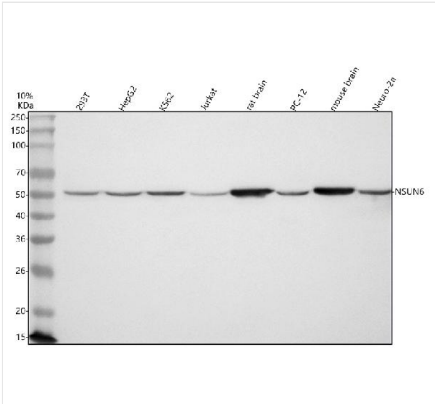
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
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-NSUN6 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human NSUN6 recombinant protein (Position: E40-E400). Human NSUN6 shares 82.3% amino acid (aa) sequence identity with mouse NSUN6.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
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.



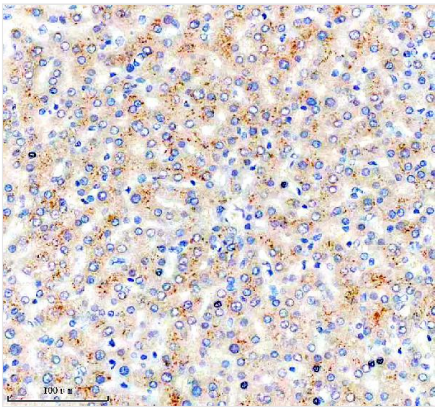
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of 293T cells using anti-NSUN6 antibody (AAA128202).Overlay histogram showing 293T cells stained with AAA128202 (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-NSUN6 Antibody (AAA128202, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of NSUN6 using anti-NSUN6 antibody (AAA128202).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 293T whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human K562 whole cell lysates,Lane 4: human Jurkat whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: rat PC-12 whole cell lysates,Lane 7: mouse brain tissue lysates,Lane 8: mouse Neuro-2a whole cell 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-NSUN6 antigen affinity purified polyclonal antibody (AAA128202) 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 NSUN6 at approximately 52 kDa. The expected band size for NSUN6 is at 52 kDa.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of NSUN6 using anti-NSUN6 antibody (AAA128202).NSUN6 was detected in a paraffin-embedded section of human liver 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-NSUN6 Antibody (AAA128202) 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.

ADDITIONAL INFORMATION

Related Product Information for anti-NSUN6 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-NSUN6 antibody	Primary Antibodies

References	1. Chi, L., Delgado-Olguin, P. Expression of NOL1/NOP2/sun domain (Nsun) RNA methyltransferase family genes in early mouse embryogenesis. Gene Expr. Patterns 13: 319-327, 2013. 2. Gross, M. B. Personal Communication. Baltimore, Md. 11/10/2016. 3. Haag, S., Warda, A. S., Kretschmer, J., Gunnigmann, M. A., Hobartner, C., Bohnsack, M. T. NSUN6 is a human RNA methyltransferase that catalyzes formation of m(5)C72 in specific tRNAs. RNA 21: 1532-1543, 2015.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	32698918
NCBI GeneID	221078
NCBI Accession #	NP_872349
NCBI GenBank Nucleotide #	NM_182543
UniProt Accession #	Q8TEA1; B0YJ54
Molecular Weight	51,770 Da
NCBI Official Full Name	putative methyltransferase NSUN6
NCBI Official Synonym Full Names	NOP2/Sun domain family, member 6
NCBI Official Symbol	NSUN6
NCBI Official Synonym Symbols	NOPD1; ARL5B-AS1; 4933414E04Rik
NCBI Protein Information	putative methyltransferase NSUN6; ARL5B antisense RNA 1; NOL1/NOP2/Sun and PUA domain-containing protein 1; NOL1/NOP2/Sun domain family, member 6; nucleolar protein (NOL1/NOP2/sun) and PUA domains 1
UniProt Protein Name	Putative methyltransferase NSUN6
UniProt Gene Name	NSUN6
UniProt Synonym Gene Names	NOPD1
UniProt Entry Name	NSUN6_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.