

Rabbit NSUN7 Polyclonal Antibody | anti-NSUN7 antibody

Anti-NSUN7 Antibody Picoband

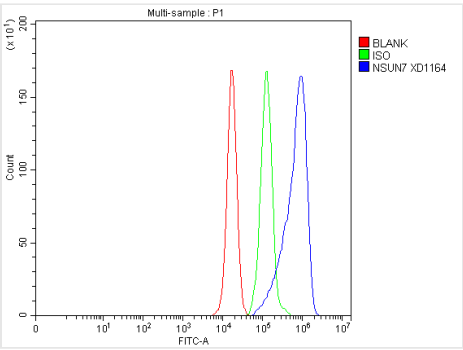
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128204	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

NSUN7; Polyclonal Antibody; Anti-NSUN7 Antibody Picoband; Putative methyltransferase NSUN7; NOP2/Sun RNA methyltransferase family member 7; EC 2.1.1.-; NOL1/NOP2/Sun domain family member 7; anti-NSUN7 antibody

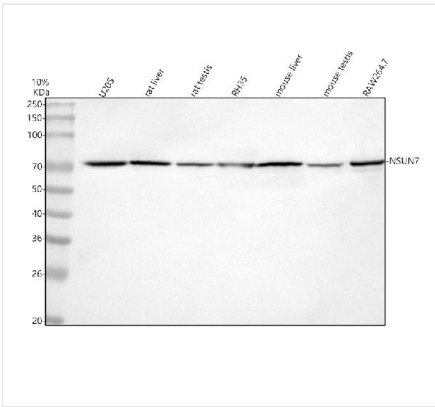
PRODUCT SPECIFICATIONS

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-NSUN7 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human NSUN7 recombinant protein (Position: D83-Q457). Human NSUN7 shares 79.2% amino acid (aa) sequence identity with mouse NSUN7.
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 2. Flow Cytometry analysis of PC-3 cells using anti-NSUN7 antibody (AAA128204). Overlay histogram showing PC-3 cells stained with AAA128204 (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-NSUN7 Antibody (AAA128204, 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 NSUN7 using anti-NSUN7 antibody (AAA128204). 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 U2OS whole cell lysates, Lane 2: rat liver tissue lysates, Lane 3: rat testis tissue lysates, Lane 4: rat RH-35 whole cell lysates, Lane 5: mouse liver tissue lysates, Lane 6: mouse testis tissue lysates, Lane 7: mouse RAW264.7 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-NSUN7 antigen affinity purified polyclonal antibody (AAA128204) 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 NSUN7 at approximately 81 kDa. The expected band size for NSUN7 is at 81 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NSUN7 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-NSUN7 antibody	Primary Antibodies
References	1. Harris, T., Marquez, B., Suarez, S., Schimenti, J. Sperm motility defects and infertility in male mice with a mutation in Nsun7, a member of the Sun domain-containing family of putative RNA methyltransferases. Biol. Reprod. 77: 376-382, 2007.2. Khosronezhad, N., Hosseinzadeh Colagar, A., Mortazavi, S. M. The Nsun7 (A11337)-deletion mutation, causes reduction of its protein rate and associated with sperm motility defect in infertile men. J. Assist. Reprod. Genet. 32: 807-815, 2015.3. Ren, H. Y., Zhong, R., Ding, X. P., Chen, Z. Y., Jing, Y. L. Investigation of polymorphisms in exon7 of the NSUN7 gene among Chinese Han men with asthenospermia. Genet. Molec. Res. 14: 9261-9268, 2015.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1060604631
NCBI GeneID	79730
NCBI Accession #	NP_001317577.1
NCBI GenBank Nucleotide #	NM_001330648.2
UniProt Accession #	Q8NE18; Q8N9K8; Q9H815; C9JI19
Molecular Weight	31,642 Da
NCBI Official Full Name	putative methyltransferase NSUN7 isoform 2

NCBI Official Synonym Full Names	NOP2/Sun RNA methyltransferase family member 7
NCBI Official Symbol	NSUN7
NCBI Protein Information	putative methyltransferase NSUN7
UniProt Protein Name	Putative methyltransferase NSUN7
UniProt Gene Name	NSUN7

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://www.aaabiotech.com/polyclonal/nsun7-antibody-flow-cytometry-western-blot-elisa/128204>