

Rabbit anti-Human, Mouse NIP7 Polyclonal Antibody | anti-NIP7 antibody

Anti-NIP7 Antibody Picoband

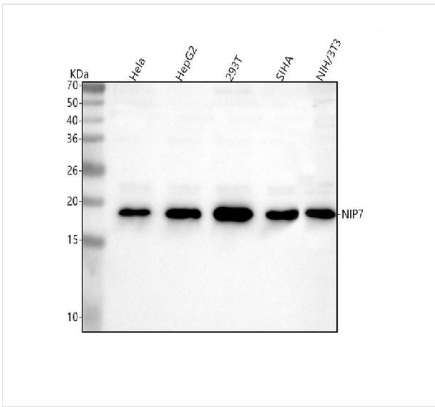
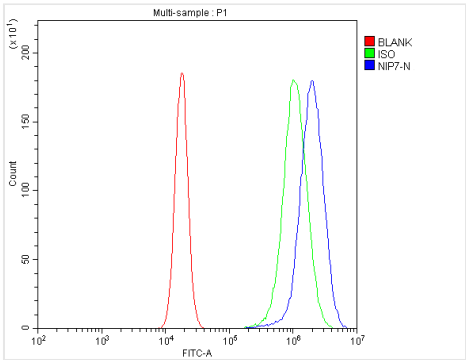
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127502	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

NIP7; Polyclonal Antibody; Anti-NIP7 Antibody Picoband; anti-NIP7 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
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-NIP7 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human NIP7 recombinant protein (Position: E14-T180). Human NIP7 shares 97.6% and 97% amino acid (aa) sequence identity with mouse and rat NIP7, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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 293T cells using anti-NIP7 antibody (AAA127502).Overlay histogram showing 293T cells stained with AAA127502 (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-NIP7 Antibody (AAA127502, 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.

WB (Western Blot)

Figure 1. Western blot analysis of NIP7 using anti-NIP7 antibody (AAA127502).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 Hela whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human 293T whole cell lysates,Lane 4: human SIHA whole cell lysates,Lane 5: mouse NIH/3T3 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-NIP7 antigen affinity purified polyclonal antibody (#AAA127502) 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 NIP7 at approximately 20 kDa. The expected band size for NIP7 is at 20 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NIP7 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-NIP7 antibody	Primary Antibodies
References	1. Gross, M. B. Personal Communication. Baltimore, Md. 2/23/2021.2. Liu, J.-F., Wang, X.-Q., Wang, Z.-X., Chen, J.-R., Jiang, T., An, X.-M., Chang, W.-R., Liang, D.-C. Crystal structure of KD93, a novel protein expressed in human hematopoietic stem/progenitor cells. J. Struct. Biol. 148: 370-374, 2004.3. Morello, L. G., Coltri, P. P., Quaresma, A. J. C., Simabuco, F. M., Silva, T. C. L., Singh, G. Nickerson, J. A., Oliveira, C. C., Moore, M. J., Zanchin, N. I. T. The human nucleolar protein FTSJ3 associates with NIP7 and functions in pre-rRNA processing. PLoS One 6: e29174, 2011. Note: Electronic Article.

NCBI AND UNIPROT INFORMATION

NCBI GI #	313661502
NCBI GeneID	51388
NCBI Accession #	NP_001186363.1
NCBI GenBank Nucleotide #	NM_001199434.1
UniProt Accession #	Q9Y221; Q9NZZ0; B2RD04
Molecular Weight	15,222 Da
NCBI Official Full Name	60S ribosome subunit biogenesis protein NIP7 homolog isoform 2
NCBI Official Synonym Full Names	NIP7, nucleolar pre-rRNA processing protein

NCBI Official Symbol	NIP7
NCBI Official Synonym Symbols	KD93; CGI-37; HSPC031
NCBI Protein Information	60S ribosome subunit biogenesis protein NIP7 homolog; nuclear import 7 homolog
UniProt Protein Name	60S ribosome subunit biogenesis protein NIP7 homolog
UniProt Gene Name	NIP7
UniProt Entry Name	NIP7_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://www.aaabiotech.com/polyclonal/nip7-antibody-flow-cytometry-western-blot-elisa/127502>