

Rabbit Ninein/NIN Polyclonal Antibody | anti-NIN antibody

Anti-Ninein/NIN Antibody Picoband

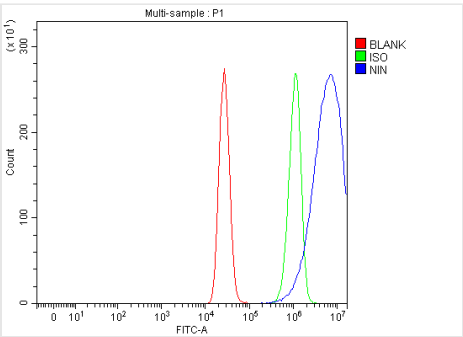
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127154	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

Ninein/NIN; Polyclonal Antibody; Anti-Ninein/NIN Antibody Picoband; endoglin; Endoglin; Cell surface MJ7/18 antigen; CD105; Eng; Edg; anti-NIN antibody

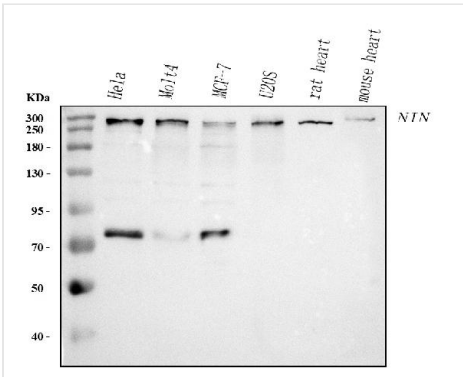
PRODUCT SPECIFICATIONS

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-NIN antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human Ninein/NIN recombinant protein (Position: Q1023-H2090).
Subcellular Localization	Membrane, Single-pass type I membrane protein
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	Major glycoprotein of vascular endothelium. Involved in the regulation of angiogenesis. May play a critical role in the binding of endothelial cells to integrins and/or other RGD receptors. Acts as TGF-beta coreceptor and is involved in the TGF- beta/BMP signaling cascade. Required for GDF2/BMP9 signaling through SMAD1 in endothelial cells.
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 MCF-7 cells using anti-Ninein/NIN antibody (AAA127154).Overlay histogram showing MCF-7 cells stained with AAA127154 (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-Ninein/NIN Antibody (AAA127154, 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 Ninein/NIN using anti-Ninein/NIN antibody (AAA127154).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 MOLT4 whole cell lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: human U2OS whole cell lysates,Lane 5: rat heart tissue lysates,Lane 6: mouse heart 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-Ninein/NIN antigen affinity purified polyclonal antibody (#AAA127154) 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 Ninein/NIN at approximately 260 kDa. The expected band size for Ninein/NIN is at 243 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NIN 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-NIN antibody	Primary Antibodies; Epigenetics and Nuclear Signaling; Neurogenesis; Neurology Process; Neuroscience; Transcription
References	1. Chen, C.-H., Howng, S.-L., Cheng, T.-S., Chou, M.-H., Huang, C.-Y., Hong, Y.-R. Molecular characterization of human ninein protein: two distinct subdomains required for centrosomal targeting and regulating signals in cell cycle. Biochem. Biophys. Res. Commun. 308: 975-983, 2003. 2. Chou, C. H., Loh, J. K., Yang, M. C., Lin, C. C., Hong, M. C., Cho, C. L., Chou, A. K., Wang, C. H., Lieu, A. S., Howng, S. L., Hsu, C. M., Hong, Y. R. AIBp regulates mitotic entry and mitotic spindle assembly by controlling activation of both Aurora-A and Plk1. Cell Cycle 14: 2764-2776, 2015. 3. Dauber, A., LaFranchi, S. H., Maliga, Z., Lui, J. C., Moon, J. E., McDeed, C., Henke, K., Zonana, J., Kingman, G. A., Pers, T. H., Baron, J., Rosenfeld, R. G., Hirschhorn, J. N., Harris, M. P., Hwa, V. Novel microcephalic primordial dwarfism disorder associated with variants in the centrosomal protein ninein. J. Clin. Endocr. Metab. 97: E2140-E2151, 2012. Note: Electronic Article.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119586105
NCBI GeneID	51199
UniProt Accession #	Q8N4C6; Q5BKU3; Q6P0P6; Q9BWU6; Q9C012; Q9C013; Q9C014; A6NDB8; B7WPA3; C9JSB6; C9JSG2; C9JXL2
Molecular Weight	241,191 Da
NCBI Official Full Name	ninein (GSK3B interacting protein), isoform CRA_j
NCBI Official Synonym Full Names	ninein

NCBI Official Symbol	NIN
NCBI Official Synonym Symbols	SCKL7
NCBI Protein Information	ninein
UniProt Protein Name	Ninein
UniProt Gene Name	NIN
UniProt Synonym Gene Names	KIAA1565; hNinein; GSK3B-interacting protein

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/ninein-nin-antibody-flow-cytometry-western-blot-elisa/127154>