

## Rabbit Ninein/NIN Polyclonal Antibody | anti-NIN antibody

Anti-Ninein/NIN Antibody Picoband

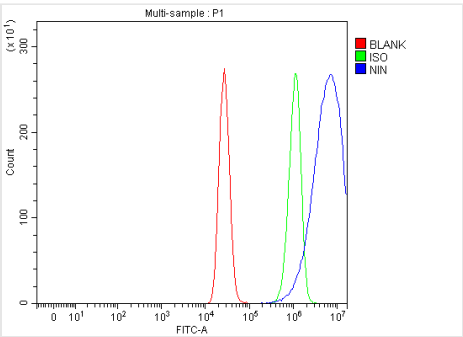
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                          |
|-----------|--------|-------------------|-------------------------------------------------------|
| AAA127154 | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

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

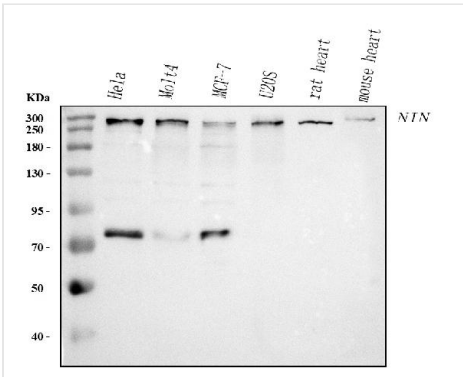
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                 |
| 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/1x10<sup>6</sup> 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/1x10<sup>6</sup>) 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             | <b>NIN</b>                                   |
| 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://stage.aaabiotech.com/polyclonal/ninein-nin-antibody-flow-cytometry-western-blot-elisa/127154>