

Rabbit anti-Human, Rat NAB1 Polyclonal Antibody | anti-NAB1 antibody

Anti-NAB1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127394	Rabbit	Human, Rat	ELISA, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NAB1; Polyclonal Antibody; Anti-NAB1 Antibody Picoband; AP-2 complex subunit beta; ubiquitin specific peptidase 21; Ubiquitin carboxyl-terminal hydrolase 21; Deubiquitinating enzyme 21; Ubiquitin thioesterase 21; Ubiquitin-specific-processing protease 21; USP21; USP23; PP1490; anti-NAB1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly Expressed in heart, pancreas and skeletal muscle. Also Expressed in brain, placenta, liver and kidney, and at very low level in lung.
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-NAB1 antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human NAB1 recombinant protein (Position: A120-K480).
Subcellular Localization	Nucleus, Cytoplasm
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	Deubiquitinates histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A releases the repression of di- and trimethylation of histone H3 at 'Lys-4', resulting in regulation of transcriptional initiation. Regulates gene expression via histone H2A deubiquitination. Also capable of removing NEDD8 from NEDD8 conjugates but has no effect on Sentrin-1 conjugates. Deubiquitinates BAZ2A/TIP5 leading to its stabilization.
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.

IMAGES



IF (Immunofluorescence)

Figure 2. IF analysis of NAB1 using anti-NAB1 antibody (AAA127394) and anti-Beta Tubulin antibody (M01857-3).NAB1 was detected in immunocytochemical section of A549 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-NAB1 Antibody (AAA127394) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluoescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of NAB1 using anti-NAB1 antibody (AAA127394).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 HepG2 whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human U-87MG whole cell lysates,Lane 4: human 293T whole cell lysates,Lane 5: rat RH35 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-NAB1 antigen affinity purified polyclonal antibody (#AAA127394) 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 NAB1 at approximately 56 kDa. The expected band size for NAB1 is at 54 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NAB1 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-NAB1 antibody	Primary Antibodies; Cofactors; Vitamins/Minerals; Metabolism; Mitochondrial; Mitochondrial Markers; Mitochondrial Metabolism; Pathways and Processes; Signal Transduction; Vitamins/Minerals
References	1. Buitrago, M., Lorenz, K., Maass, A. H., Oberdorf-Maass, S., Keller, U., Shmitteckert, E. M., Ivashchenko, Y., Lohse, M. J., Engelhardt, S. The transcriptional repressor Nab1 is a specific regulator of pathological cardiac hypertrophy. Nature Med. 11: 837-844, 2005. 2. Le, N., Nagarajan, R., Wang, J. Y. T., Svaren, J., LaPash, C., Araki, T., Schmidt, R. E., Milbrandt, J. Nab proteins are essential for peripheral nervous system myelination. Nature Neurosci. 8: 932-940, 2005.3. Russo, M. W., Sevetson, B. R., Milbrandt, J. Identification of NAB1, a repressor of NGFI-A- and Krox20-mediated transcription. Proc. Nat. Acad. Sci. 92: 6873-6877, 1995.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19923348
NCBI GeneID	4664
NCBI Accession #	NP_005957
NCBI GenBank Nucleotide #	NM_005966
UniProt Accession #	Q13506; O75383; O75384; Q6GTU1; Q9UEV1
Molecular Weight	51,233 Da
NCBI Official Full Name	NGFI-A-binding protein 1
NCBI Official Synonym Full Names	NGFI-A binding protein 1 (EGR1 binding protein 1)
NCBI Official Symbol	NAB1
NCBI Protein Information	NGFI-A-binding protein 1; EGR-1-binding protein 1; EGR1 binding protein 1; transcriptional regulatory protein p54
UniProt Protein Name	NGFI-A-binding protein 1
UniProt Gene Name	NAB1
UniProt Entry Name	NAB1_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://stage.aaabiotech.com/polyclonal/nab1-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/127394>