

Rabbit NAB2 Polyclonal Antibody | anti-NAB2 antibody

Anti-NAB2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128215	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NAB2; Polyclonal Antibody; Anti-NAB2 Antibody Picoband; NGFI-A binding protein 2; MADER; NGFI-A-binding protein 2; EGR-1-binding protein 2; Melanoma-associated delayed early response protein; Protein MADER; anti-NAB2 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-NAB2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human NAB2 recombinant protein (Position: D235-Q525). Human NAB2 shares 96.6% amino acid (aa) sequence identity with mouse NAB2.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of MCF-7 cells using anti-NAB2 antibody (AAA128215). Overlay histogram showing MCF-7 cells stained with AAA128215 (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-NAB2 Antibody (AAA128215, 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.



IF (Immunofluorescence)

Figure 2. IF analysis of NAB2 using anti-NAB2 antibody (AAA128215) and anti-Beta Tubulin antibody (M01857-3). NAB2 was detected in an immunocytochemical section of U2OS cells. 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-NAB2 Antibody (AAA128215) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG and DyLight®594 Conjugated Goat Anti-Mouse IgG (BA1141) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of NAB2 using anti-NAB2 antibody (AAA128215). 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 MCF-7 whole cell lysates, Lane 2: human SiHa whole cell lysates, Lane 3: rat thymus tissue lysates, Lane 4: mouse thymus 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-NAB2 antigen affinity purified polyclonal antibody (AAA128215) 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 NAB2 at approximately 57 kDa. The expected band size for NAB2 is at 57 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NAB2 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-NAB2 antibody	Primary Antibodies
References	1. Chmielecki, J., Crago, A. M., Rosenberg, M., O'Connor, R., Walker, S. R., Ambrogio, L., Auclair, D., McKenna, A., Heinrich, M. C., Frank, D. A., Meyerson, M. Whole-exome sequencing identifies a recurrent NAB2-STAT6 fusion in solitary fibrous tumors. Nature Genet. 45: 131-135, 2013. 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. Robinson, D. R., Wu, Y.-M., Kalyana-Sundaram, S., Cao, X., Lonigro, R. J., Sung, Y.-S., Chen, C.-L., Zhang, L., Wang, R., Su, F., Iyer, M. K., Roychowdhury, S., and 9 others. Identification of recurrent NAB2-STAT6 gene fusions in solitary fibrous tumor by integrative sequencing. Nature Genet. 45: 180-185, 2013.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174607
NCBI GeneID	4665
NCBI Accession #	NP_005958.1
NCBI GenBank Nucleotide #	NM_005967.3
UniProt Accession #	Q15742; O76006; Q14797; B2RAK3
Molecular Weight	56,594 Da
NCBI Official Full Name	NGFI-A-binding protein 2
NCBI Official Synonym Full Names	NGFI-A binding protein 2 (EGR1 binding protein 2)
NCBI Official Symbol	NAB2
NCBI Official Synonym Symbols	MADER
NCBI Protein Information	NGFI-A-binding protein 2; EGR1 binding protein 2; EGR-1-binding protein 2; melanoma-associated delayed early response protein
UniProt Protein Name	NGFI-A-binding protein 2
UniProt Gene Name	NAB2

UniProt Synonym Gene Names	MADER; Protein MADER
UniProt Entry Name	NAB2_HUMAN

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