

Rabbit NBR1 Polyclonal Antibody | anti-NBR1 antibody

Anti-NBR1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127186	Rabbit	Human, Monkey	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NBR1; Polyclonal Antibody; Anti-NBR1 Antibody Picoband; Segment polarity protein dishevelled homolog DVL-1; Dishevelled-1; DSH homolog 1; DVL1; anti-NBR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Found in embryos and in adult liver and heart.
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-NBR1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human NBR1 recombinant protein (Position: M1-H665).
Subcellular Localization	Cell membrane, Peripheral membrane protein, Cytoplasmic side, Cytoplasm, cytosol, Cytoplasmic vesicle, Localizes at the cell membrane upon interaction with frizzled family members.
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	Participates in Wnt signaling by binding to the cytoplasmic C-terminus of frizzled family members and transducing the Wnt signal to down-stream effectors. Plays a role both in canonical and non-canonical Wnt signaling. Plays a role in the signal transduction pathways mediated by multiple Wnt genes. Required for LEF1 activation upon WNT1 and WNT3A signaling. DVL1 and PAK1 form a ternary complex with MUSK which is important for MUSK-dependent regulation of AChR clustering during the formation of the neuromuscular junction (NMJ).
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 3. Flow Cytometry analysis of MCF-7 cells using anti-NBR1 antibody (AAA127186).Overlay histogram showing MCF-7 cells stained with AAA127186 (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-NBR1 Antibody (AAA127186, 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 NBR1 using anti-NBR1 antibody (AAA127186).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 K562 whole cell lysates,Lane 4: monkey COS-7 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-NBR1 antigen affinity purified polyclonal antibody (#AAA127186) 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 NBR1 at approximately 140 kDa. The expected band size for NBR1 is at 107,140 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of NBR1 using anti-NBR1 antibody (AAA127186) and anti-Beta Tubulin antibody (M01857-3).NBR1 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-NBR1 Antibody (AAA127186) 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.

ADDITIONAL INFORMATION

Related Product Information for anti-NBR1 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-NBR1 antibody	Primary Antibodies; Cytoplasmic; Signaling Pathways; Stem Cells
References	1. Brown, M. A., Nicolai, H., Xu, C.-F., Griffiths, B. L., Jones, K. A., Solomon, E., Hosking, L., Trowsdale, J., Black, D. M., McFarlane, R. Regulation of BRCA1. (Letter) Nature 372: 733 only, 1994. 2. Brown, M. A., Xu, C.-F., Nicolai, H., Griffiths, B., Chambers, J. A., Black, D., Solomon, E. The 5-prime end of the BRCA1 gene lies within a duplicated region of human chromosome 17q21. Oncogene 12: 2507-2513, 1996.3. Campbell, I. G., Nicolai, H. M., Foulkes, W. D., Senger, G., Stamp, G. W., Allan, G., Boyer, C., Jones, K., Bast, R. C., Jr., Solomon, E., Trowsdale, J., Black, D. M. A novel gene encoding a B-box protein within the BRCA1 region at 17q21.1. Hum. Molec. Genet. 3: 589-594, 1994.

NCBI AND UNIPROT INFORMATION

NCBI GI #	296439290
NCBI GeneID	4077
UniProt Accession #	Q14596; Q13173; Q15026; Q5J7Q8; Q96GB6; Q9NRF7
Molecular Weight	966
NCBI Official Full Name	Next to BRCA1 gene 1 protein

NCBI Official Synonym Full Names	neighbor of BRCA1 gene 1
NCBI Official Symbol	NBR1
NCBI Official Synonym Symbols	IAI3B; M17S2; MIG19; 1A1-3B
NCBI Protein Information	next to BRCA1 gene 1 protein; B-box protein; migration-inducing protein 19; cell migration-inducing gene 19 protein; membrane component, chromosome 17, surface marker 2 (ovarian carcinoma antigen CA125)
UniProt Protein Name	Next to BRCA1 gene 1 protein
UniProt Gene Name	NBR1
UniProt Synonym Gene Names	1A13B; KIAA0049; M17S2
UniProt Entry Name	NBR1_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/nbr1-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127186>