

Rabbit NDRG4 Polyclonal Antibody | anti-NDRG4 antibody

Anti-NDRG4 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127269	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

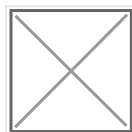
PRODUCT SYNONYMS

NDRG4; Polyclonal Antibody; Anti-NDRG4 Antibody Picoband; Transmembrane protein 107; TMEM107; DC20; UNQ638/PRO1268; anti-NDRG4 antibody

PRODUCT SPECIFICATIONS

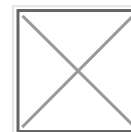
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Ubiquitous.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NDRG4 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human NDRG4 recombinant protein (Position: M1-R226).
Subcellular Localization	Membrane, Multi-pass 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	Plays a role in cilia formation and embryonic patterning. Requires for normal Sonic hedgehog (Shh) signaling in the neural tube and acts in combination with GLI2 and GLI3 to pattern ventral and intermediate neuronal cell types (By similarity).
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 293T cells using anti-NDRG4 antibody (AAA127269).Overlay histogram showing 293T cells stained with AAA127269 (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-NDRG4 Antibody (AAA127269, 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.



IF (Immunofluorescence)

Figure 2. IF analysis of NDRG4 using anti-NDRG4 antibody (AAA127269) and anti-Beta Tubulin antibody (M01857-3).NDRG4 was detected in immunocytochemical section of U2OS 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-NDRG4 Antibody (AAA127269) 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 fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of NDRG4 using anti-NDRG4 antibody (AAA127269). 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 293T whole cell lysates, Lane 2: rat brain tissue lysates, Lane 3: mouse brain 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-NDRG4 antigen affinity purified polyclonal antibody (#AAA127269) 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 NDRG4 at approximately 37 kDa. The expected band size for NDRG4 is at 37-45 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NDRG4 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-NDRG4 antibody	Primary Antibodies; Cell Biology
References	1. Hirosawa, M., Nagase, T., Ishikawa, K., Kikuno, R., Nomura, N., Ohara, O. Characterization of cDNA clones selected by the GeneMark analysis from size-fractionated cDNA libraries from human brain. DNA Res. 6: 329-336, 1999. 2. Hongo, S., Watanabe, T., Takahashi, K., Miyazaki, A. NdrG4 enhances NGF-induced ERK activation uncoupled with Elk-1 activation. J. Cell. Biochem. 98: 185-193, 2006. 3. Linhares, N. D., Freire, M. C. M., Cardenas, R. G. C. C. L., Pena, H. B., Bahia, M., Pena, S. D. J. Exome sequencing identifies a novel homozygous variant in NDRG4 in a family with infantile myofibromatosis. Europ. J. Med. Genet. 57: 643-648, 2014.

NCBI AND UNIPROT INFORMATION

NCBI GI #	194440722
NCBI GeneID	65009
NCBI Accession #	NP_001123959.1
NCBI GenBank Nucleotide #	NM_001130487.1
UniProt Accession #	Q9ULP0; Q6ZNE7; Q6ZTI7; Q96PL9; Q9GZM1; Q9GZN3; Q9GZX0; B3KNU2; B4DK66; B4DSW5; H7C600
Molecular Weight	38,459 Da
NCBI Official Full Name	protein NDRG4 isoform 2
NCBI Official Synonym Full Names	NDRG family member 4
NCBI Official Symbol	NDRG4
NCBI Official Synonym Symbols	BDM1; SMAP8; SMAP-8
NCBI Protein Information	protein NDRG4; smooth muscle-associated protein 8; brain development-related molecule 1; N-myc downstream-regulated gene 4 protein; vascular smooth muscle cell-associated protein 8
UniProt Protein Name	Protein NDRG4
UniProt Gene Name	NDRG4
UniProt Synonym Gene Names	BDM1; KIAA1180; SMAP-8
UniProt Entry Name	NDRG4_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/ndrg4-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127269>