

Rabbit anti-Human NRD1/NRDC Polyclonal Antibody | anti-NRD1/NRDC antibody

Anti-NRD1/NRDC Antibody Picoband

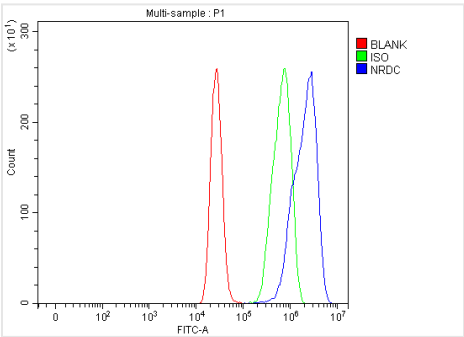
CATALOG # AAA127323	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

NRD1/NRDC; Polyclonal Antibody; Anti-NRD1/NRDC Antibody Picoband; activator of HSP90 ATPase activity 1 ; Activator of 90 kDa heat shock protein ATPase homolog 1; AHA1; p38; AHSA1; C14orf3; HSPC322; anti-NRD1/NRDC antibody

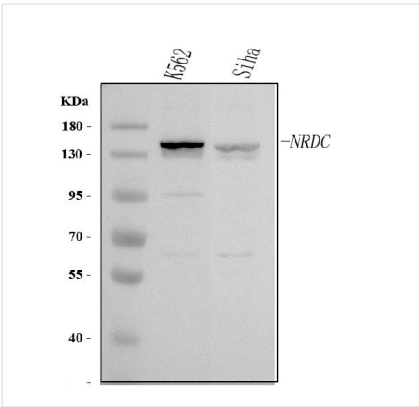
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in numerous tissues, including brain, heart, skeletal muscle and kidney and, at lower levels, liver and placenta.
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-NRD1/NRDC antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human NRD1/NRDC recombinant protein (Position: K427-R967).
Subcellular Localization	Cytoplasm, cytosol
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	Acts as a co-chaperone of HSP90AA1. Activates the ATPase activity of HSP90AA1 leading to increase in its chaperone activity. Competes with the inhibitory co-chaperone FNIP1 for binding to HSP90AA1, thereby providing a reciprocal regulatory mechanism for chaperoning of client proteins (PubMed:27353360).
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-NRD1/NRDC antibody (AAA127323). Overlay histogram showing MCF-7 cells stained with AAA127323 (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-NRD1/NRDC Antibody (AAA127323, 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 NRD1/NRDC using anti-NRD1/NRDC antibody (AAA127323). 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 K562 whole cell lysates, Lane 2: human SIHA 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-NRD1/NRDC antigen affinity purified polyclonal antibody (#AAA127323) 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 NRD1/NRDC at approximately 140 kDa. The expected band size for NRD1/NRDC is at 130 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NRD1/NRDC 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-NRD1/NRDC antibody	Primary Antibodies; Chaperones; Golgi Proteins; Protein Trafficking; Signal Transduction
References	1. Fumagalli, P., Accarino, M., Egeo, A., Scartezzini, P., Rappazzo, G., Pizzuti, A., Avvantaggiato, V., Simeone, A., Arrigo, G., Zuffardi, O., Ottolenghi, S., Taramelli, R. Human NRD convertase: a highly conserved metalloendopeptidase expressed at specific sites during development and in adult tissues. Genomics 47: 238-245, 1998. 2. Hospital, V., Prat, A., Joulie, C., Cherif, D., Day, R., Cohen, P. Human and rat testis express two mRNA species encoding variants of NRD convertase, a metalloendopeptidase of the insulinase family. Biochem. J. 327: 773-779, 1997. 3. Ohno, M., Hiraoka, Y., Matsuoka, T., Tomimoto, H., Takao, K., Miyakawa, T., Oshima, N., Kiyonari, H., Kimura, T., Kita, T., Nishi, E. Nardilysin regulates axonal maturation and myelination in the central and peripheral nervous system. Nature Neurosci. 12: 1506-1513, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	334358861
NCBI GeneID	4898
NCBI Accession #	NP_001229290.1
NCBI GenBank Nucleotide #	NM_001242361.1
UniProt Accession #	O43847; O15241; O15242; Q5VUL0; Q96HB2; Q9NU57; A6NI41
Molecular Weight	131,572 Da
NCBI Official Full Name	nardilysin isoform c
NCBI Official Synonym Full Names	nardilysin (N-arginine dibasic convertase)

NCBI Official Symbol	NRD1
NCBI Official Synonym Symbols	hNRD1; hNRD2
NCBI Protein Information	nardilysin; NRD-C; NRD convertase
UniProt Protein Name	Nardilysin
UniProt Gene Name	NRD1
UniProt Synonym Gene Names	NRD convertase; NRD-C
UniProt Entry Name	NRDC_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/nrd1-nrdc-antibody-flow-cytometry-western-blot-elisa/127323>