

Rabbit NDUFA8 Polyclonal Antibody | anti-NDUFA8 antibody

Anti-NDUFA8 Antibody Picoband

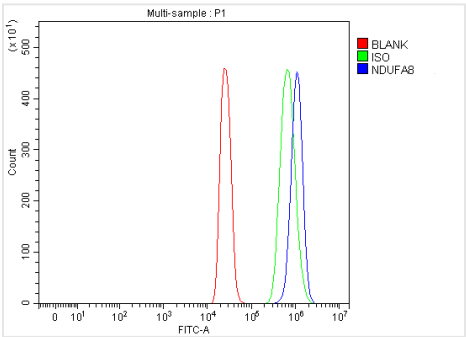
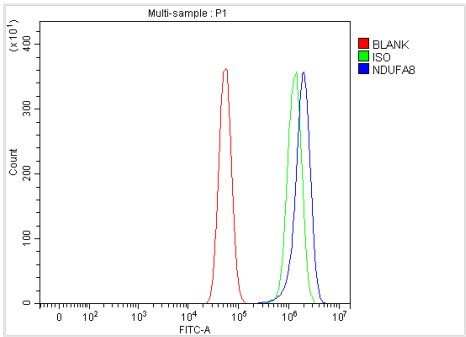
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127661	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

NDUFA8; Polyclonal Antibody; Anti-NDUFA8 Antibody Picoband; Neutrophil defensin 1; Defensin; alpha 1; HNP-1; HP-1; HP1; HP 1-56; Neutrophil defensin 2; HNP-2; HP-2; HP2; DEFA1; DEF1; DEFA2; MRS; DEFA1B; anti-NDUFA8 antibody

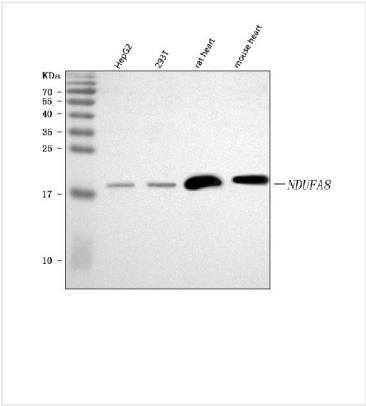
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in immature but not mature T-cells. Also found in CD34+ cells from peripheral blood, CD34+ precursors from umbilical cord blood and adult bone marrow.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-NDUFA8 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human NDUFA8 recombinant protein (Position: M1-K172).
Subcellular Localization	Secreted
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	Defensin 1 and defensin 2 have antibacterial, fungicide and antiviral activities. Has antimicrobial activity against Gram- negative and Gram-positive bacteria. Defensins are thought to kill microbes by permeabilizing their plasma membrane.
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 U87 cells using anti-NDUFA8 antibody (AAA127661).Overlay histogram showing U87 cells stained with AAA127661 (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-NDUFA8 Antibody (AAA127661, 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.

FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of 293T cells using anti-NDUFA8 antibody (AAA127661).Overlay histogram showing 293T cells stained with AAA127661 (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-NDUFA8 Antibody (AAA127661, 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 NDUFA8 using anti-NDUFA8 antibody (AAA127661).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 293T whole cell lysates,Lane 3: rat heart tissue lysates,Lane 4: mouse heart 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-NDUFA8 antigen affinity purified polyclonal antibody (#AAA127661) 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 NDUFA8 at approximately 19 kDa. The expected band size for NDUFA8 is at 20 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NDUFA8 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-NDUFA8 antibody	Primary Antibodies; Defensin; Human Protein; Immunology; Innate Immunity; Macrophage/Inflammation; Microbiology; Protein; Secreted Molecules

References	1. Bugiani, M., Invernizzi, F., Alberio, S., Briem, E., Lamantea, E., Carrara, F., Moroni, I., Farina, L., Spada, M., Donati, M. A., Uziel, G., Zeviani, M. Clinical and molecular findings in children with complex I deficiency. <i>Biochim. Biophys. Acta</i> 1659: 136-147, 2004. 2. Dickinson, M. E., Flenniken, A. M., Ji, X., Teboul, L., Wong, M. D., White, J. K., Meehan, T. F., Weninger, W. J., Westerberg, H., Adissu, H., Baker, C. N., Bower, L., and 73 others. High-throughput discovery of novel developmental phenotypes. <i>Nature</i> 537: 508-514, 2016. Note: Erratum: <i>Nature</i> 551: 398 only, 2017. 3. Emahazion, T., Beskow, A., Gyllenstein, U., Brookes, A. J. Intron based radiation hybrid mapping of 15 complex I genes of the human electron transport chain. <i>Cytogenet. Cell Genet.</i> 82: 115-119, 1998.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7657369
NCBI GeneID	4702
NCBI Accession #	NP_055037.1
NCBI GenBank Nucleotide #	NM_014222.2
UniProt Accession #	P51970; Q9Y6N0; B1AM93
Molecular Weight	20,105 Da
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8, 19kDa
NCBI Official Symbol	NDUFA8
NCBI Official Synonym Symbols	PGIV; CI-19KD; CI-PGIV
NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8; complex I-19kD; complex I-PGIV; complex I PGIV subunit; NADH:ubiquinone oxidoreductase PGIV subunit; NADH-ubiquinone oxidoreductase
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8
UniProt Gene Name	NDUFA8
UniProt Synonym Gene Names	CI-19kD; CI-PGIV
UniProt Entry Name	NDUA8_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.