

Rabbit NDUFb4 Polyclonal Antibody | anti-NDUFb4 antibody

Anti-NDUFb4 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127690	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

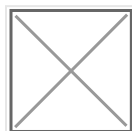
PRODUCT SYNONYMS

NDUFb4; Polyclonal Antibody; Anti-NDUFb4 Antibody Picoband; anti-NDUFb4 antibody

PRODUCT SPECIFICATIONS

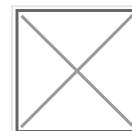
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NDUFb4 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human NDUFb4 recombinant protein (Position: M1-Y129). Human NDUFb4 shares 75.2% amino acid (aa) sequence identity with mouse NDUFb4.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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 THP-1 cells using anti-NDUFb4 antibody (AAA127690).Overlay histogram showing THP-1 cells stained with AAA127690 (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-NDUFb4 Antibody (AAA127690, 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 NDUFb4 using anti-NDUFb4 antibody (AAA127690).NDUFb4 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-NDUFb4 Antibody (AAA127690) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of NDUFB4 using anti-NDUFB4 antibody (AAA127690). 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 A431 whole cell lysates, Lane 2: rat heart tissue lysates, Lane 3: 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-NDUFB4 antigen affinity purified polyclonal antibody (#AAA127690) 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 NDUFB4 at approximately 15 kDa. The expected band size for NDUFB4 is at 15 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NDUFB4 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-NDUFB4 antibody	Primary Antibodies
References	1. Loeffen, J. L. C. M., Triepels, R. H., van den Heuvel, L. P., Schuelke, M., Buskens, C. A. F., Smeets, R. J. P., Trijbels, J. M. F., Smeitink, J. A. M. cDNA of eight nuclear encoded subunits of NADH:ubiquinone oxidoreductase: human complex I cDNA characterization completed. Biochem. Biophys. Res. Commun. 253: 415-422, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	270288780
NCBI GeneID	4710
NCBI Accession #	NP_001161803.1
NCBI GenBank Nucleotide #	NM_001168331.1
UniProt Accession #	O95168; B2RUY3; B9EJC7
Molecular Weight	14,026 Da
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa
NCBI Official Symbol	NDUFB4
NCBI Official Synonym Symbols	B15; CI-B15
NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4; NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4; NADH-ubiquinone oxidoreductase B15 subunit; complex I B15 subunit; complex I-B15
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4
UniProt Gene Name	NDUFB4
UniProt Synonym Gene Names	CI-B15
UniProt Entry Name	NDUB4_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/ndufb4-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127690>