

Rabbit NDUFA7 Polyclonal Antibody | anti-NDUFA7 antibody

Anti-NDUFA7 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127677	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

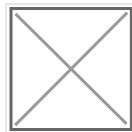
PRODUCT SYNONYMS

NDUFA7; Polyclonal Antibody; Anti-NDUFA7 Antibody Picoband; Aquaporin-6; NOVA alternative splicing regulator 2; RNA-binding protein Nova-2; Astrocytic NOVA1-like RNA-binding protein; Neuro-oncological ventral antigen 2; NOVA2; ANOVA; NOVA3; anti-NDUFA7 antibody

PRODUCT SPECIFICATIONS

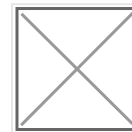
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Brain. Expression restricted to astrocytes.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NDUFA7 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human NDUFA7 recombinant protein (Position: M1-L113).
Subcellular Localization	Nucleus
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	May regulate RNA splicing or metabolism in a specific subset of developing neurons. Binds single strand RNA.
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 SiHa cells using anti-NDUFA7 antibody (AAA127677).Overlay histogram showing SiHa cells stained with AAA127677 (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-NDUFA7 Antibody (AAA127677, 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.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of NDUFA7 using anti-NDUFA7 antibody (AAA127677).NDUFA7 was detected in a paraffin-embedded section of rat cardiac tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-NDUFA7 Antibody (AAA127677) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of NDUFA7 using anti-NDUFA7 antibody (AAA127677). 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: human PC-3 whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: rat heart tissue lysates, Lane 5: rat kidney tissue lysates, Lane 6: 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-NDUFA7 antigen affinity purified polyclonal antibody (#AAA127677) 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 NDUFA7 at approximately 15 kDa. The expected band size for NDUFA7 is at 13 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NDUFA7 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-NDUFA7 antibody	Primary Antibodies; Channels; Metabolism; Plasma Membrane; Signal Transduction
References	1. Dunbar, D. R., Shibasaki, Y., Dobbie, L., Andersson, B., Brookes, A. J. In situ hybridisation mapping of genomic clones for five human respiratory chain complex I genes. Cytogenet. Cell Genet. 78: 21-24, 1997.2. Emahazion, T., Brookes, A. J. Mapping of the NDUFA2, NDUFA6, NDUFA7, NDUF8, and NDUF8S electron transport chain genes by intron based radiation hybrid mapping. Cytogenet. Cell Genet. 82: 114 only, 1998.3. 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 #	103472001
NCBI GeneID	4701
NCBI Accession #	NP_004992.2
NCBI GenBank Nucleotide #	NM_005001.3
UniProt Accession #	O95182
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH:ubiquinone oxidoreductase subunit A7
NCBI Official Symbol	NDUFA7
NCBI Official Synonym Symbols	B14.5a; CI-B14.5a
NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 7
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 7
UniProt Gene Name	NDUFA7
UniProt Synonym Gene Names	CI-B14.5a
UniProt Entry Name	NDUA7_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/ndufa7-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127677>