

Rabbit NDUFS8 Polyclonal Antibody | anti-NDUFS8 antibody

Anti-NDUFS8 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19597	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

NDUFS8; Polyclonal Antibody; Anti-NDUFS8 Antibody Picoband; anti-NDUFS8 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
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 .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-NDUFS8 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.1-0.25 ug/ml, Human, Mouse, Rat IHC-P: 2-5 ug/ml, Human, Mouse FC/FACS: 1-3 ug/1x10 ⁶ cells, Human Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human NDUFS8 recombinant protein (Position: M1-R210).
Preparation and Storage	Store 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 (Flow Cytometry)

Figure 6. Flow Cytometry analysis of 293T cells using anti-NDUFS8 antibody (AAA19597). Overlay histogram showing 293T cells stained with AAA19597 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NDUFS8 Antibody (AAA19597, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



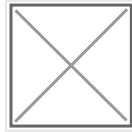
FCM (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HeLa cells using anti-NDUFS8 antibody (AAA19597). Overlay histogram showing HeLa cells stained with AAA19597 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NDUFS8 Antibody (AAA19597, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



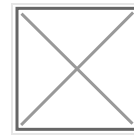
IHC (Immunohistochemistry)

Figure 4. IHC analysis of NDUFS8 using anti-NDUFS8 antibody (AAA19597). NDUFS8 was detected in a paraffin-embedded section of mouse heart 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 2 ug/ml rabbit anti-NDUFS8 Antibody (AAA19597) 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.



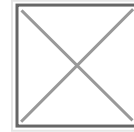
WB (Western Blot)

Figure 2. Western blot analysis of NDUFS8 using anti-NDUFS8 antibody (AAA19597). 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: rat heart tissue lysates, Lane 2: rat liver tissue lysates, Lane 3: rat skeletal muscle tissue lysates, Lane 4: mouse heart tissue lysates, Lane 5: mouse liver tissue lysates, Lane 6: mouse skeletal muscle tissue lysates, Lane 7: mouse C2C12 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-NDUFS8 antigen affinity purified polyclonal antibody (#AAA19597) at 0.25 ug/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 NDUFS8 at approximately 23 kDa. The expected band size for NDUFS8 is at 23 kDa.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of NDUFS8 using anti-NDUFS8 antibody (AAA19597). NDUFS8 was detected in a paraffin-embedded section of human liver cancer 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 2 ug/ml rabbit anti-NDUFS8 Antibody (AAA19597) 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 NDUFS8 using anti-NDUFS8 antibody (AAA19597). 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 Hela whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human A549 whole cell lysates, Lane 4: human MCF-7 whole cell lysates, Lane 5: human CACO-2 whole cell lysates, Lane 6: human PC-3 whole cell lysates, Lane 7: human 293T 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-NDUFS8 antigen affinity purified polyclonal antibody (#AAA19597) at 0.25 ug/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 NDUFS8 at approximately 23 kDa. The expected band size for NDUFS8 is at 23 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NDUFS8 antibody	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial also known as NADH-ubiquinone oxidoreductase 23 kDa subunit, Complex I-23kD (CI-23kD), or TYKY subunit is an enzyme that in humans is encoded by the NDUFS8 gene. This gene encodes a subunit of mitochondrial NADH:ubiquinone oxidoreductase, or Complex I, a multimeric enzyme of the respiratory chain responsible for NADH oxidation, ubiquinone reduction, and the ejection of protons from mitochondria. The encoded protein is involved in the binding of two of the six to eight iron-sulfur clusters of Complex I and, as such, is required in the electron transfer process. Mutations in this gene have been associated with Leigh syndrome.
Product Categories/Family for anti-NDUFS8 antibody	Primary Antibodies , Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505371
NCBI GeneID	4728
NCBI Accession #	NP_002487
NCBI GenBank Nucleotide #	NM_002496
UniProt Accession #	O00217 ; Q0VDA8 ; B2RB86
Molecular Weight	23,705 Da
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH dehydrogenase (ubiquinone) Fe-S protein 8, 23kDa (NADH-coenzyme Q reductase)

NCBI Official Symbol	NDUFS8
NCBI Official Synonym Symbols	TYKY; CI-23k; CI23KD
NCBI Protein Information	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial; NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial; NADH-ubiquinone oxidoreductase 23 kDa subunit; complex I 23kDa subunit; complex I-23kD
UniProt Protein Name	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial
UniProt Gene Name	NDUFS8
UniProt Synonym Gene Names	CI-23kD
UniProt Entry Name	NDUS8_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/ndufs8-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/19597>