

Rabbit NDUFA9 Polyclonal Antibody | anti-NDUFA9 antibody

Anti-NDUFA9 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19886	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Immunocytochemistry, Western Blot

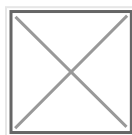
PRODUCT SYNONYMS

NDUFA9; Polyclonal Antibody; Anti-NDUFA9 Antibody Picoband; anti-NDUFA9 antibody

PRODUCT SPECIFICATIONS

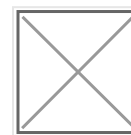
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-NDUFA9 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human, Rat ICC/IF: 5ug/ml, Human IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug /1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human NDUFA9 recombinant protein (Position: Q6-I377). Human NDUFA9 shares 78.9% and 76.4% amino acid (aa) sequence identity with mouse and rat NDUFA9, respectively.
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 (Flow Cytometry)

Figure 15. Flow Cytometry analysis of U87 cells using anti-NDUFA9 antibody (AAA19886). Overlay histogram showing U87 cells stained with AAA19886 (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-NDUFA9 Antibody (AAA19886, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) 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 14. IF analysis of NDUFA9 using anti-NDUFA9 antibody (AAA19886) and anti-Beta Tubulin antibody (M01857-3). NDUFA9 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-NDUFA9 Antibody (AAA19886) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) and DyLight®550 Conjugated Goat Anti-Mouse IgG (BA1133) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-NDUFA9 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-NDUFA9 antibody	Primary Antibodies
References	1. Baens, M., Chaffanet, M., Cassiman, J.-J., van den Berghe, H., Marynen, P. Construction and evaluation of a hncDNA library of human 12 transcribed sequences derived from a somatic cell hybrid. Genomics 16: 214-218, 1993.2. Baertling, F., Sanchez-Caballero, L., van den Brand, M. A. M., Fung, C.-W., Chan, S. H.-S., Wong, V. C.-N., Hellebrekers, D. M. E., de Coo, I. F. M., Smeitink, J. A. M., Rodenburg, R. J. T., Nijtmans, L. G. J. NDUFA9 point mutations cause a variable mitochondrial complex I assembly defect. Clin. Genet. 93: 111-118, 2018. 3. Fearnley, I. M., Finel, M., Skehel, J. M., Walker, J. E. NADH:ubiquinone oxidoreductase from bovine heart mitochondria. Biochem. J. 278: 821-829, 1991.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6681764
NCBI GeneID	4704
NCBI Accession #	NP_004993.1
NCBI GenBank Nucleotide #	NM_005002.4
UniProt Accession #	Q16795; Q14076; Q2NKX0
Molecular Weight	42,510 Da
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9, 39kDa
NCBI Official Symbol	NDUFA9
NCBI Official Synonym Symbols	CC6; CI39k; CI-39k; NDUFS2L; SDR22E1
NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial; CI-39kD; complex I 39kDa subunit; NADH-ubiquinone oxidoreductase 39 kDa subunit; short chain dehydrog
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial
UniProt Gene Name	NDUFA9
UniProt Synonym Gene Names	NDUFS2L; CI-39kD
UniProt Entry Name	NDUA9_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.