

Rabbit anti-Human, Mouse NDUF3 Polyclonal Antibody | anti-NDUF3 antibody

Anti-NDUF3 Antibody

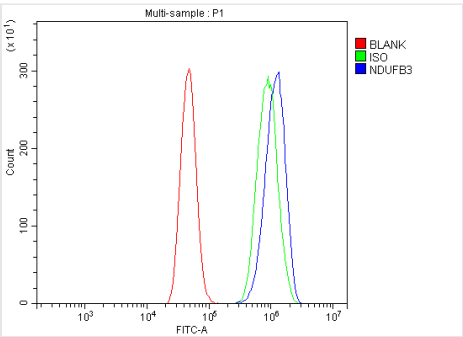
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125817	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

NDUF3; Polyclonal Antibody; Anti-NDUF3 Antibody; NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 3; Complex I-B12; CI-B12; NADH-ubiquinone oxidoreductase B12 subunit; NADH:ubiquinone oxidoreductase subunit B3; anti-NDUF3 antibody

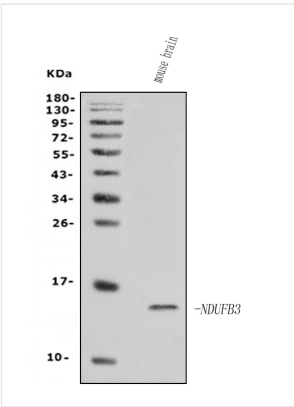
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for NDUF3 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-NDUF3 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human NDUF3 recombinant protein (Position: A2-M54).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A431 cells using anti-NDUFEB3 antibody (AAA125817).Overlay histogram showing A431 cells stained with AAA125817 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NDUFEB3 Antibody (AAA125817, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/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 NDUFEB3 using anti-NDUFEB3 antibody (AAA125817).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 30ug of sample under reducing conditions.Lane 1: mouse brain tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-NDUFEB3 antigen affinity purified polyclonal antibody (Catalog # AAA125817) at 0. 5 μg/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 NDUFEB3 at approximately 14KD. The expected band size for NDUFEB3 is at 14KD.

ADDITIONAL INFORMATION

Related Product Information for anti-NDUFEB3 antibody	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12kDa is a protein that in humans is encoded by the NDUFEB3 gene. This gene encodes an accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which is the first enzyme in the electron transport chain of mitochondria. This protein localizes to the inner membrane of the mitochondrion as a single-pass membrane protein. Mutations in this gene contribute to mitochondrial complex 1 deficiency. Alternative splicing results in multiple transcript variants encoding the same protein. Humans have multiple pseudogenes of this gene.
References	1. Calvo, S. E., Compton, A. G., Hershman, S. G., Lim, S. C., Lieber, D. S., Tucker, E. J., Laskowski, A., Garone, C., Liu, S., Jaffe, D. B., Christodoulou, J., Fletcher, J. M., Bruno, D. L., Goldblatt, J., DiMauro, S., Thorburn, D. R., Mootha, V. K. Molecular diagnosis of infantile mitochondrial disease with targeted next-generation sequencing. Sci. Transl. Med. 4: 118ra10, 2012. Note: Electronic Article. 2. Haack, T. B., Haberberger, B., Frisch, E. -M., Wieland, T., Iuso, A., Gorza, M., Strecker, V., Graf, E., Mayr, J. A., Herberg, U., Hennermann, J. B., Klopstock, T., and 16 others. Molecular diagnosis in mitochondrial complex I deficiency using exome sequencing. J. Med. Genet. 49: 277-283, 2012. 3. Jensen, L. L., Nielsen, M. M., Justesen, J., Hansen, L. L. Assignment of human NADH dehydrogenase (ubiquinone) 1 beta subcomplex 3 (NDUFEB3) and of its four pseudogenes to human chromosomes 2q31. 3, 1p13. 3-p13. 1, 9q32-q34. 1, 14q22. 3-q23. 1 and 14q32. 2 by radiation hybrid mapping. Cytogenet. Cell Genet. 93: 147-150, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	380036038
NCBI GeneID	4709
NCBI Accession #	NP_001244031
NCBI GenBank Nucleotide #	NM_002491
UniProt Accession #	O43676; Q6IB80
Molecular Weight	11,402 Da

NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12kDa
NCBI Official Symbol	NDUFB3
NCBI Official Synonym Symbols	B12; CI-B12
NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 3; NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 3; NADH-ubiquinone oxidoreductase B12 subunit; complex I-B12
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 3
UniProt Gene Name	NDUFB3
UniProt Synonym Gene Names	CI-B12
UniProt Entry Name	NDUB3_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://www.aaabiotech.com/polyclonal/ndufb3-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125817>