NDUFC2 Antibody – Rabbit Polyclonal

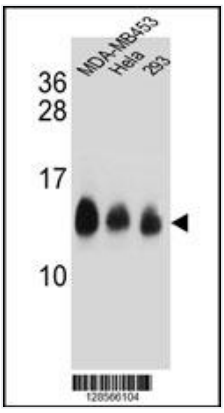
PRODUCT OVERVIEW

Product Name	NDUFC2, Polyclonal Antibody
Full Product Name	NDUFC2, CT (NDUFC2, NADH dehydrogenase [ubiquinone] 1 subunit C2, Complex I-B14.5b, Human lung cancer oncogene 1 protein, NADH-ubiquinone oxidoreductase subunit B14.5b) (Biotin)
Product Gene Name	anti-NDUFC2 antibody
Product Synonym Names	NDUFC2; NADH dehydrogenase [ubiquinone] 1 subunit C2; Complex I-B14.5b; Human lung cancer oncogene 1 protein; NADH-ubiquinone oxidoreductase subunit B14.5b
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
OMIM	603845
3D Structure	ModBase 3D Structure for O95298
Immunogen	NDUFC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 93-123 amino acids from the C-terminal region of human NDUFC2.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-NDUFC2 antibody	Antibodies; Cancer Markers
Applications Tested/Suitable for anti-NDUFC2 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-NDUFC2 antibody	IHC: 1:50-100 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-NDUFC2 antibody	Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.
Product References and Citations for anti-NDUFC2 antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009). Wheeler, H.E., et al. PLoS Genet. 5 (10), E1000685 (2009): Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008). Starr, J.M., et al. Mech. Ageing Dev. 129(12):745-751(2008).
Other Notes	Small volumes of anti-NDUFC2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for NDUFC2 purchase	MBS6324421 is an antibody targeting NDUFC2. Also known as NDUFC2, CT (NDUFC2, NADH dehydrogenase [ubiquinone] 1 subunit C2, Complex I-B14.5b, Human lung cancer oncogene 1 protein, NADH-ubiquinone oxidoreductase subunit B14.5b) (Biotin). Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-NDUFC2 antibody
NDUFC2 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the NDUFC2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blot (WB) of anti-NDUFC2 antibody
NDUFC2 Antibody (C-term) western blot analysis in MDA-MB453,Hela,293 cell line lysates (35ug/lane).This demonstrates the NDUFC2 antibody detected the NDUFC2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NDUFC2. It may not necessarily be applicable to this product.

NCBI GI #	4758784
NCBI GeneID	4718
NCBI Accession #	NP_004540.1
UniProt Primary Accession #	O95298
UniProt Related Accession #	O95298
GenBank Nucleotide #	NP_004540.1
NCBI Official Full Name	NADH dehydrogenase
NCBI Official Synonym Full Names	NADH:ubiquinone oxidoreductase subunit C2
NCBI Official Symbol	NDUFC2
NCBI Official Synonym Symbols	HLC-1; B14.5b; NADHDH2; CI-B14.5b
UniProt Protein Name	NADH dehydrogenase [ubiquinone] 1 subunit C2
UniProt Synonym Protein Names	Complex I-B14.5b; CI-B14.5b; Human lung cancer oncogene 1 protein; HLC-1; NADH-ubiquinone oxidoreductase subunit B14.5b
Protein Family	NADH dehydrogenase
UniProt Gene Name	NDUFC2
UniProt Synonym Gene Names	CI-B14.5b; HLC-1
UniProt Entry Name	NDUC2_HUMAN
NCBI Protein Information	NADH dehydrogenase [ubiquinone] 1 subunit C2

UniProt Comments for NDUFC2	NDUFC2: Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. Belongs to the complex I NDUFC2 subunit family. Protein type: Membrane protein, integral; Mitochondrial; Energy Metabolism - oxidative phosphorylation Chromosomal Location of Human Ortholog: 11q14.1 Cellular Component: mitochondrial inner membrane; cytoplasm; integral to membrane; mitochondrial respiratory chain complex I Molecular Function: NADH dehydrogenase (ubiquinone) activity Biological Process: cellular metabolic process; mitochondrial electron transport, NADH to ubiquinone
Research Articles on NDUFC2	**1.** A significant reduction of NDUFC2 expression is detected in ACS. In vitro, NDUFC2 silencing affects vascular cell viability and angiogenesis while stimulating the expression of markers of plaque rupture. Our observations suggest that these mechanisms may contribute to ACS development.
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