10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NDUFA10 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9768c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O95299
Reactivity	Human, Mouse
Predicted	Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24540
Calculated MW	40751
Antigen Region	252-281

Additional Information

Gene ID	4705
Other Names	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial, Complex I-42kD, CI-42kD, NADH-ubiquinone oxidoreductase 42 kDa subunit, NDUFA10
Target/Specificity	This NDUFA10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 252-281 amino acids from the Central region of human NDUFA10.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NDUFA10 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NDUFA10
Function	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.

Cellular Location Mitochondrion matrix

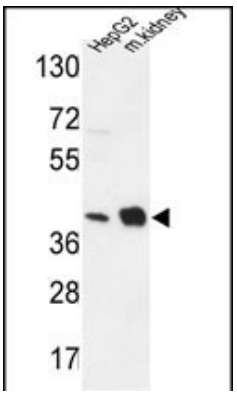
Background

The protein encoded by this gene belongs to the complex I 42kDA subunit family. Mammalian complex I is the first enzyme complex in the electron transport chain of mitochondria. It is composed of 45 different subunits. This protein is a component of the hydrophobic protein fraction and has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain.

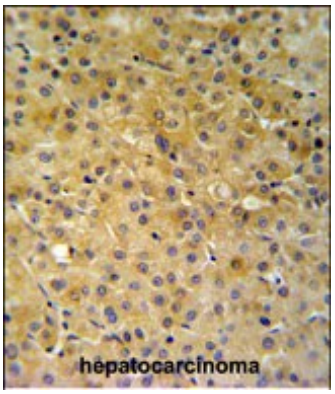
References

Saito, A., et al. J. Hum. Genet. 54(6):317-323(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)
Ma, J., et al. Atherosclerosis 191(1):63-72(2007)
Harris, S.E., et al. BMC Genet. 8, 43 (2007)
Gevaert, K., et al. Nat. Biotechnol. 21(5):566-569(2003)

Images

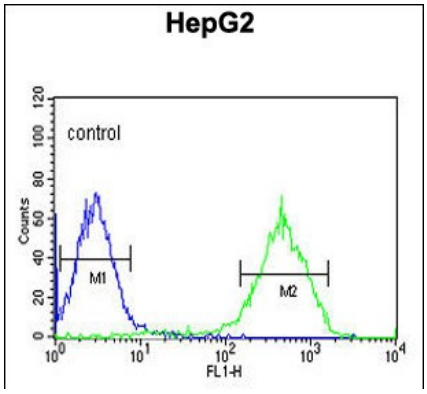


NDUFA10 Antibody (Center) (Cat. #AP9768c) western blot analysis in HepG2 cell line and mouse kidney tissue lysates (35ug/lane).This demonstrates the NDUFA10 antibody detected the NDUFA10 protein (arrow).



NDUFA10 Antibody (Center) (Cat. #AP9768c) IHC analysis in formalin fixed and paraffin embedded hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the NDUFA10 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

NDUFA10 Antibody (Center) (Cat. #AP9768c) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.