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

NDUFS8 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12552c

Product Information

Application	WB, IHC-P, E
Primary Accession	O00217
Other Accession	Q8K3J1, Q60HE3, Q22619, P42028, NP_002487.1
Reactivity	Human
Predicted	Bovine, C.Elegans, Monkey, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB30203
Calculated MW	23705
Antigen Region	81-108

Additional Information

Gene ID	4728
Other Names	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial, Complex I-23kD, CI-23kD, NADH-ubiquinone oxidoreductase 23 kDa subunit, TYKY subunit, NDUFS8
Target/Specificity	This NDUFS8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 81-108 amino acids from the Central region of human NDUFS8.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	NDUFS8 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NDUFS8
Function	Core subunit of the mitochondrial membrane respiratory chain NADH

	dehydrogenase (Complex I) which catalyzes electron transfer from NADH through the respiratory chain, using ubiquinone as an electron acceptor (PubMed:22499348). Essential for the catalytic activity and assembly of complex I (PubMed:22499348).
Cellular Location	Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P42028}; Matrix side {ECO:0000250|UniProtKB:P42028}
Tissue Location	Expressed in all tissues with the highest level in heart and skeletal muscle and the lowest level in lung

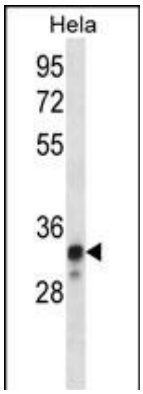
Background

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.

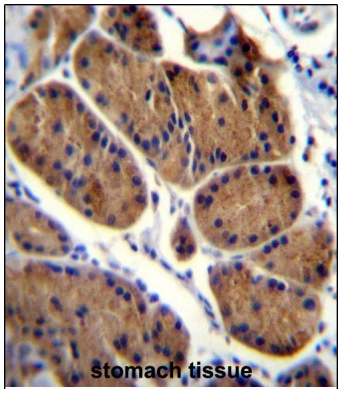
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Bourges, I., et al. Biochem. J. 383 (PT 3), 491-499 (2004) : Procaccio, V., et al. Neurology 62(10):1899-1901(2004) Ugalde, C., et al. Hum. Mol. Genet. 13(6):659-667(2004) Murray, J., et al. J. Biol. Chem. 278(39):37223-37230(2003)

Images



NDUFS8 Antibody (Center) (Cat. #AP12552c) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the NDUFS8 antibody detected the NDUFS8 protein (arrow).



NDUFS8 Antibody (Center) (Cat. #AP12552c)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of NDUFS8 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.