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NDUFS8 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12552c

Specification

NDUFS8 Antibody (Center) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	O00217
Other Accession	Q8K3J1, Q60HE3, Q22619, P42028, NP_002487.1, Q9VF27
Reactivity	**Human**
Predicted	**Bovine, C.Elegans, Drosophila, Monkey, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**23705**
Antigen Region	**81-108**

NDUFS8 Antibody (Center) - 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
IHC-P~~1:10~50
WB~~1:1000
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.

NDUFS8 Antibody (Center) - Protein Information

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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}

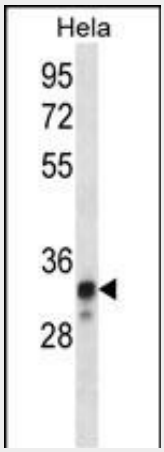
Tissue Location
Expressed in all tissues with the highest level in heart and skeletal muscle and the lowest level in lung

NDUFS8 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NDUFS8 Antibody (Center) - 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).

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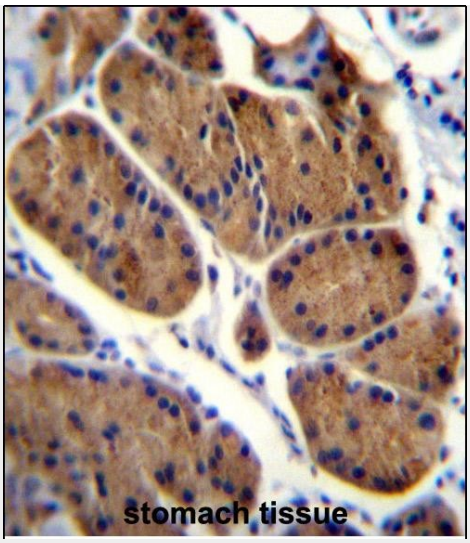

NDUFS8 Antibody (Center) (Cat. #AP12552c)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of NDUFS8 Antibody (Center) for immunohistochemistry. Clinical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

NDUFS8 Antibody (Center) - 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.

NDUFS8 Antibody (Center) - 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)