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NDUFS7 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5221

Product Information

Application	WB
Primary Accession	O75251
Other Accession	Q9DC70, P42026
Reactivity	Mouse, Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23564
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	374291
Antigen Region	119-146
Other Names	NDUFS7;NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial; NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial; Complex I-20kD; NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial; NADH-ubiquinone oxidoreductase 20 kDa subunit; NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial; PSST subunit
Dilution	WB~~1:1000
Target/Specificity	This NDUFS7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 119-146 amino acids from the Central region of human NDUFS7.
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	NDUFS7 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NDUFS7
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:17275378). Essential for the catalytic activity of complex I (PubMed:17275378).
Cellular Location	Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P42026}; Matrix side {ECO:0000250|UniProtKB:P42026}

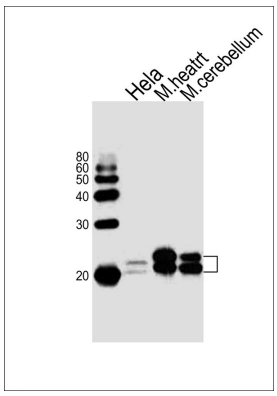
Background

Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for 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 (By similarity).

References

Hyslop S.J., et al. Genomics 37:375-380(1996).
Grimwood J., et al. Nature 428:529-535(2004).
Murray J., et al. J. Biol. Chem. 278:13619-13622(2003).
Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).
Triepels R.H., et al. Ann. Neurol. 45:787-790(1999).

Images



Western blot analysis of lysates from Hela cell line,mouse heart,mouse cerebellum tissue lysate (from left to right), using NDUFS7 Antibody (Center)(Cat. #AW5221). AW5221 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.