



Anti-NDUFS4 (aa 66-175) polyclonal antibody (DPAB-DC2010)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes an accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), or NADH:ubiquinone oxidoreductase, the first multi-subunit enzyme complex of the mitochondrial respiratory chain. Complex I plays a vital role in cellular ATP production, the primary source of energy for many crucial processes in living cells. It removes electrons from NADH and passes them by a series of different protein-coupled redox centers to the electron acceptor ubiquinone. In well-coupled mitochondria, the electron flux leads to ATP generation via the building of a proton gradient across the inner membrane. Complex I is composed of at least 41 subunits, of which 7 are encoded by the mitochondrial genome and the remainder by nuclear genes.
Immunogen	NDUFS4 (NP_002486, 66 a.a. ~ 175 a.a) partial recombinant protein with GST tag. The sequence is GVPEEHIKTRKVRIFVPARNNMQSGVNNTKKWKMEFDTRERWENPLMGWASTADPLSNMV LTFSTKEDAVSFAEKNWSYDIEERKVPKPKSKSYGANFSWNKRTRVSTK
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	NDUFS4 NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase) [Homo sapiens (human)]
Official Symbol	NDUFS4
Synonyms	NDUFS4; NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase); AQDQ; CI-18; NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial; CI-AQDQ; CI-18 kDa; complex I-AQDQ; complex I-18 kDa; complex I 18kDa subunit; NADH-coenzyme Q reductase, 18-KD; NADH-ubiquinone oxidoreductase 18 kDa subunit; NADH dehydrogenase (ubiquinone) iron-sulfur protein 4; mitochondrial respiratory chain complex I (18-KD subunit);
Entrez Gene ID	4724
Protein Refseq	NP_002486
UniProt ID	O43181
Chromosome Location	5q11.1
Pathway	Alzheimers disease; Electron Transport Chain; Huntingtons disease; NADH dehydrogenase (ubiquinone) Fe-S protein/flavoprotein complex, mitochondria
Function	NADH dehydrogenase (ubiquinone) activity; contributes_to NADH dehydrogenase (ubiquinone) activity;