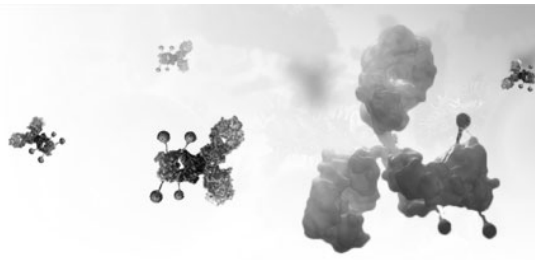

Rabbit Anti-Human NDUFS1 Polyclonal Antibody (CABT-L2249)

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

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to NADH Dehydrogenase Ubiquinone Fe-S Protein 1 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against NDUFS1. It has been selected for its ability to recognize NDUFS1 in immunohistochemical staining and western blotting.
Target	NDUFS1
Immunogen	Recombinant fragment corresponding to human NDUFS1 (Ala524~Cys727)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

45-1 Ramsey Road, Shirley, NY 11967, USA
Email:info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags
Warnings	For research use only.

BACKGROUND

Introduction	The protein encoded by this gene belongs to the complex I 75 kDa subunit family. Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. This protein is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized. Mutations in this gene are associated with complex I deficiency. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]
Keywords	CI-75Kd;NADH-Coenzyme Q Reductase;NADH Dehydrogenase Iron-Sulfur Protein 1;NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial

GENE INFORMATION

Gene Name	NDUFS1 NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase) [Homo sapiens (human)]
Official Symbol	NDUFS1
Synonyms	NDUFS1; NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase); CI-75k; CI-75Kd; PRO1304; NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial; complex I 75kDa subunit; complex I, mitochondrial respiratory chain, 75-kD subunit; mitochondrial NADH-ubiquinone oxidoreductase 75 kDa subunit;
Entrez Gene ID	4719
Protein Refseq	NP_001186910
UniProt ID	P28331
Chromosome Location	2q33-q34
Pathway	Alzheimers disease; Electron Transport Chain; Huntingtons disease; Metabolic pathways; Metabolism; NADH dehydrogenase (ubiquinone) Fe-S protein/flavoprotein complex,

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	mitochondria; Non-alcoholic fatty liver disease (NAFLD); Oxidative phosphorylation;
Function	2 iron, 2 sulfur cluster binding; 4 iron, 4 sulfur cluster binding; contributes_to NADH dehydrogenase (ubiquinone) activity; NADH dehydrogenase (ubiquinone) activity; electron carrier activity; metal ion binding; protein binding;

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