Datasheet for ABIN1393014

anti-NDUFS7 antibody (AA 101-160) (AbBy Fluor® 647)

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Overview

Quantity:	100 µL
Target:	NDUFS7
Binding Specificity:	AA 101-160
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NDUFS7 antibody is conjugated to AbBy Fluor® 647
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human NDUFS7
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Dog,Cow,Pig,Horse,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	NDUFS7
Alternative Name:	NDUFS7 (NDUFS7 Products)

Target Details

Background:	Synonyms: CI 20, CI-20kD, Complex I 20 kDa subunit, Complex I mitochondrial respiratory chain 20 KD subunit, Complex I-20kD, MGC120002, MY017, NADH coenzyme Q reductase, NADH dehydrogenase ubiquinone Fe S protein 7 20 kDa NADH coenzyme Q reductase, NADH dehydrogenase ubiquinone FeS protein 7, 20 kDa NADHcoenzyme Q reductase, NADH dehydrogenase ubiquinone FeS protein7, 20 kDa NADHcoenzyme Q reductase, NADH dehydrogenase [ubiquinone] iron-sulfur protein 7, mitochondrial, NADH-ubiquinone oxidoreductase 20 kDa subunit, NADH:ubiquinone oxidoreductase PSST subunit, NADHcoenzyme Q reductase, Ndufs7, NDUS7_HUMAN, PSST, PSST subunit. Background: Located in the mitochondrial inner membrane, mitochondrial complex I is the first and largest enzyme in the electron transport chain of oxidative phosphorylation. By oxidizing NADH that is produced in the Krebs cycle, this complex utilizes the two electrons to reduce ubiquinone to ubiquinol, thereby initiating the passage of electrons to successive complexes and ultimately leading to the reduction of oxygen to water. Mitochondrial complex I consists of over 40 subunits and is of considerable clinical interest since defects in any of the subunits can lead to various myopathies and neuropathies. As a subunit of mitochondrial complex I, NDUFS7 (NADH dehydrogenase [ubiquinone] iron-sulfur protein 7), also designated NADH-ubiquinone oxidoreductase 20 kDa subunit, is a 213 amino acid protein that is suggested to be required for catalytic activity. Defects in the gene encoding NDUFS7 are the cause of Leigh syndrome, a severe neurological disorder that is characterized by bilaterally symmetrical necrotic lesions in subcortical brain regions.

Application Details

Application Notes:	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

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