Datasheet for ABIN1386126

anti-NDUFS7 antibody (AA 101-160)

2 Images

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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 un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

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

Target Details

Alternative Name:	NDUFS7 (NDUFS7 Products)
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

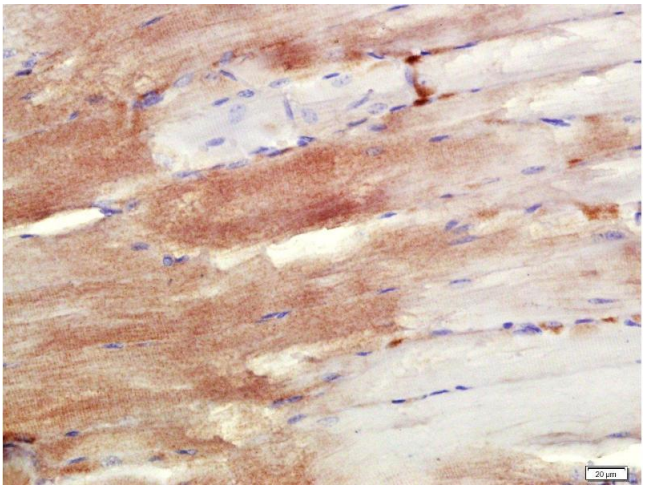
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Restrictions:	For Research Use only

Handling

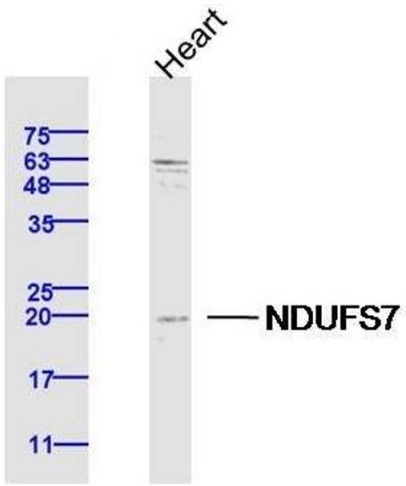
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Paraformaldehyde-fixed, paraffin embedded Mouse skeletal muscle, Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes, Blocking buffer (normal goat serum) at 37°C for 30min, Antibody incubation with NDUFS7 Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.



Western Blotting

Image 2. Lane 1: Mouse Heart lysates probed with NDUFS7 Polyclonal Antibody, Unconjugated at 1:300 overnight at 4˚C. Followed by a conjugated secondary antibody at 1:10000 for 60 min at 37˚C.