

## Rabbit Anti-NDUFS2 antibody

SL10455R

<b>Product Name</b>	NDUFS2
<b>Chinese Name</b>	NDUFS2 抗体
<b>Alias</b>	NDUS2_HUMAN; NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial; Complex I-49kD; CI-49kD; NADH-ubiquinone oxidoreductase 49 kDa subunit; NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial isoform 1 precursor; CI-49.
<b>Research Area</b>	Mitochondrion
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Mouse, (predicted: Human, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit, ) WB=1:500-2000 (Paraffin sections need antigen repair)
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Theoretical molecular weight</b>	49kDa
<b>Cellular localization</b>	cytoplasmic Mitochondrion
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human NDUFS2: 351-450/463
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Buffer Solution</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
<b>Storage</b>	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
<b>Attention</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>PubMed</b>	<a href="#">PubMed</a>
<b>Product Detail</b>	The protein encoded by this gene is a core subunit of the mitochondrial

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membrane respiratory chain NADH dehydrogenase (complex I). Mammalian mitochondrial complex I is composed of at least 43 different subunits, 7 of which are encoded by the mitochondrial genome, and the rest are the products of nuclear genes. The iron-sulfur protein fraction of complex I is made up of 7 subunits, including this gene product. Complex I catalyzes the NADH oxidation with concomitant ubiquinone reduction and proton ejection out of the mitochondria. Mutations in this gene are associated with mitochondrial complex I deficiency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009].

**Function:**

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.

**Subunit:**

Complex I is composed of 45 different subunits. Component of the iron-sulfur (IP) fragment of the enzyme. Interacts with NDUFAF3.

**Subcellular Location:**

Mitochondrion inner membrane; Peripheral membrane protein; Matrix side.

**DISEASE:**

Defects in NDUFS2 are a cause of mitochondrial complex I deficiency (MT-C1D) [MIM:252010]. A disorder of the mitochondrial respiratory chain that causes a wide range of clinical disorders, from lethal neonatal disease to adult-onset neurodegenerative disorders. Phenotypes include macrocephaly with progressive leukodystrophy, non-specific encephalopathy, cardiomyopathy, myopathy, liver disease, Leigh syndrome, Leber hereditary optic neuropathy, and some forms of Parkinson disease.

**Similarity:**

Belongs to the complex I 49 kDa subunit family.

**SWISS:**

O75306

**Gene ID:**

4720

**Database links:**

[Entrez Gene: 4720](#) Human

[Entrez Gene: 226646](#) Mouse

[Entrez Gene: 289218](#) Rat

[Omim: 602985](#) Human

[SwissProt: O75306](#) Human

[SwissProt: Q91WD5](#) Mouse

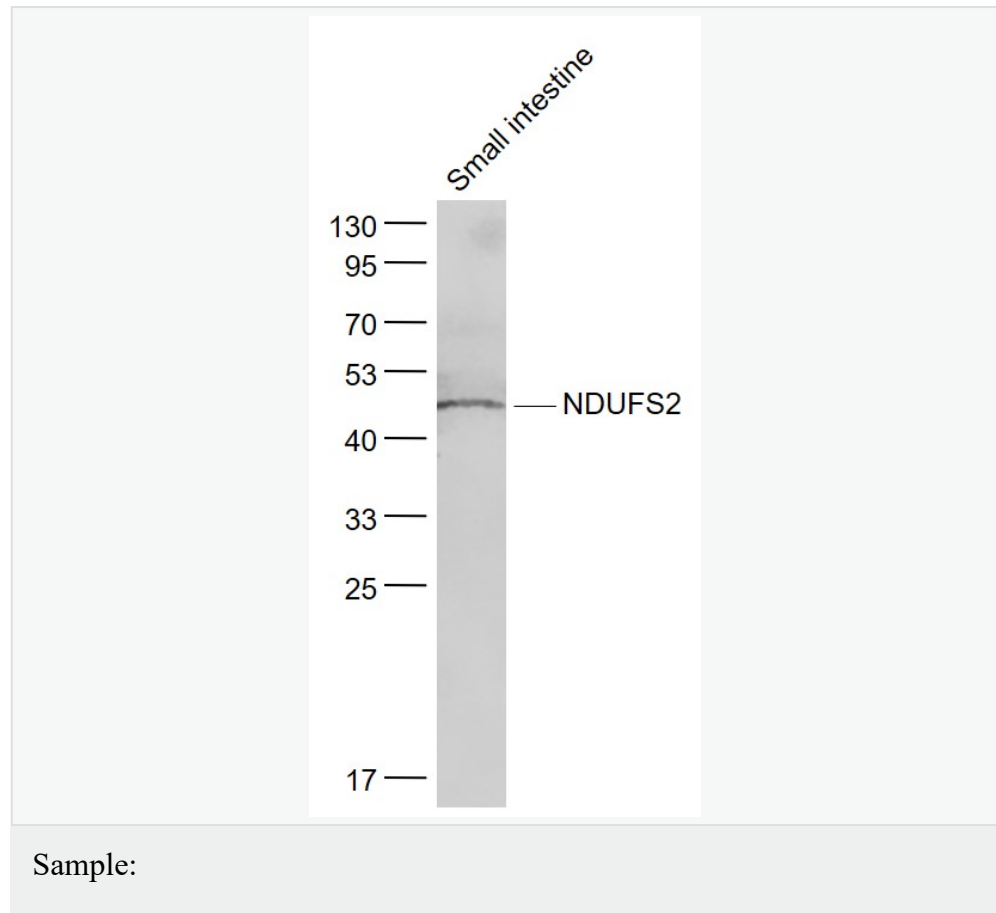
[SwissProt: Q641Y2](#) Rat

[Unigene: 173611](#) Human

[Unigene: 21669](#) Mouse

[Unigene: 225926](#) Rat

**Product Picture**



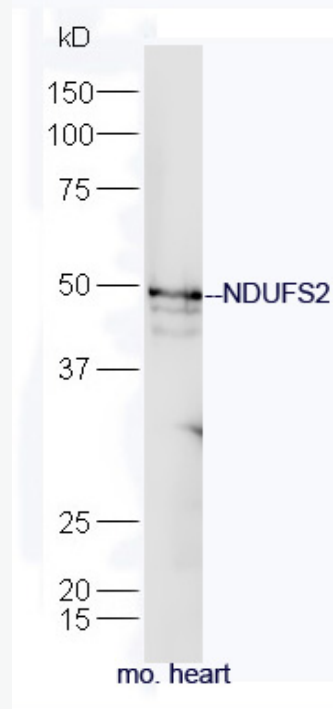
Small intestine (Mouse) Lysate at 40 ug

Primary: Anti- NDUFS2 (SL10455R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 49 kD

Observed band size: 49 kD



Sample:

heart (Mouse) Lysate at 40 ug

Primary: Anti-NDUFS2 (SL10455R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution



Predicted band size: 49 kD

Observed band size: 49 kD