

**NDUFS2 Antibody (aa200-430)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16220****Specification**

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**NDUFS2 Antibody (aa200-430) - Product Information**

Application	<b>WB, ICC, IHC</b>
Primary Accession	<a href="#">O75306</a>
Reactivity	<b>Human, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>53kDa KDa</b>

**NDUFS2 Antibody (aa200-430) - Additional Information****Gene ID** 4720**Other Names**

NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial, 1.6.5.3, 1.6.99.3, Complex I-49kD, CI-49kD, NADH-ubiquinone oxidoreductase 49 kDa subunit, NDUFS2

**Target/Specificity**

Human NDUFS2

**Reconstitution & Storage**

Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

**Precautions**

NDUFS2 Antibody (aa200-430) is for research use only and not for use in diagnostic or therapeutic procedures.

**NDUFS2 Antibody (aa200-430) - Protein Information****Name** NDUFS2**Function**

Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which catalyzes electron transfer from NADH through the respiratory chain, using ubiquinone as an electron acceptor (PubMed: [22036843](http://www.uniprot.org/citations/22036843), PubMed: [28031252](http://www.uniprot.org/citations/28031252), PubMed: [30922174](http://www.uniprot.org/citations/30922174)). Essential for the catalytic activity of complex I (PubMed: [22036843](http://www.uniprot.org/citations/22036843), PubMed: [30922174](http://www.uniprot.org/citations/30922174)). Essential for the assembly of complex I (By similarity). Redox-sensitive, critical component of the oxygen-sensing pathway in the pulmonary vasculature which plays a key role in acute pulmonary oxygen-sensing and hypoxic pulmonary vasoconstriction (PubMed: [30922174](#)).

<http://www.uniprot.org/citations/30922174>). Plays an important role in carotid body sensing of hypoxia (By similarity). Essential for glia-like neural stem and progenitor cell proliferation, differentiation and subsequent oligodendrocyte or neuronal maturation (By similarity).

#### Cellular Location

Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:Q641Y2}; Matrix side {ECO:0000250|UniProtKB:Q641Y2}

#### Volume

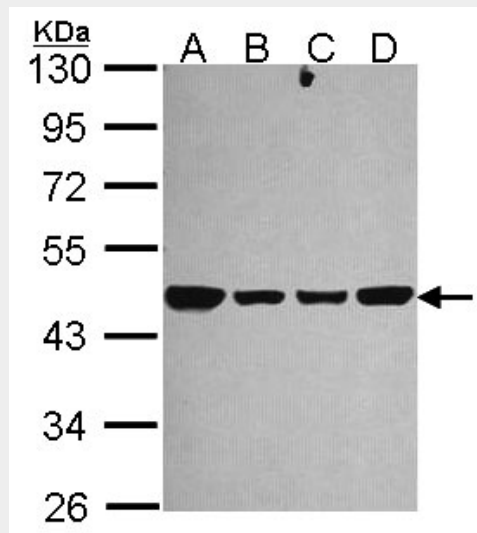
50  $\mu$ l

#### NDUFS2 Antibody (aa200-430) - Protocols

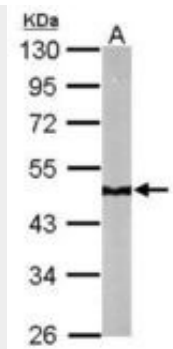
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

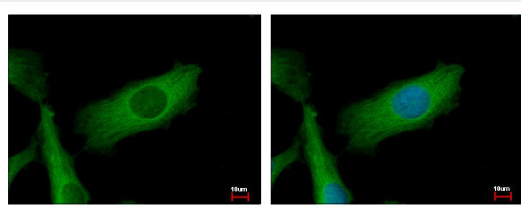
#### NDUFS2 Antibody (aa200-430) - Images



Sample (30  $\mu$ g of whole cell lysate).



Sample (50 ug of whole cell lysate).



NDUFS2 antibody detects NDUFS2 protein at mitochondria by immunofluorescent analysis.



Anti-NDUFS2 antibody IHC staining of human kidney.

### **NDUFS2 Antibody (aa200-430) - Background**

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 (By similarity).

### **NDUFS2 Antibody (aa200-430) - References**

- Loeffen J., et al. *Biochem. Biophys. Res. Commun.* 247:751-758(1998).
- Procaccio V., et al. *Mamm. Genome* 9:482-484(1998).
- Ota T., et al. *Nat. Genet.* 36:40-45(2004).
- Gregory S.G., et al. *Nature* 441:315-321(2006).
- Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.