

**NDUFS2 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3265a

### Specification

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#### NDUFS2 Antibody (internal region) - Product Information

Application	WB
Primary Accession	<a href="#">O75306</a>
Other Accession	<a href="#">NP_004541.1</a> , <a href="#">NP_001159631.1</a> , <a href="#">4720</a> , <a href="#">226646</a> (mouse), <a href="#">289218</a> (rat)
Reactivity	Human, Mouse, Rat
Predicted	Rabbit, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	52546

#### NDUFS2 Antibody (internal region) - 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

#### Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

NDUFS2 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

#### NDUFS2 Antibody (internal region) - 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: [30922174](http://www.uniprot.org/citations/30922174), PubMed: [28031252](http://www.uniprot.org/citations/28031252))

target="\_blank">28031252</a>). Essential for the catalytic activity of complex I (PubMed:<a href="http://www.uniprot.org/citations/22036843" target="\_blank">22036843</a>, PubMed:<a href="http://www.uniprot.org/citations/30922174" target="\_blank">30922174</a>). 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:<a href="http://www.uniprot.org/citations/30922174" target="\_blank">30922174</a>). 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

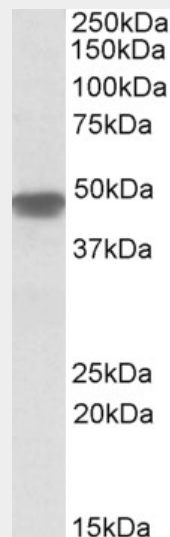
Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:Q641Y2}; Matrix side {ECO:0000250|UniProtKB:Q641Y2}

#### NDUFS2 Antibody (internal region) - 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 (internal region) - Images



AF3265a (0.1 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### NDUFS2 Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP\_004541.1; NP\_001159631.1).

**NDUFS2 Antibody (internal region) - References**

Mutations in NDUFAF3 (C3ORF60), encoding an NDUFAF4 (C6ORF66)-interacting complex I assembly protein, cause fatal neonatal mitochondrial disease. Saada A, Vogel RO, Hoefs SJ, van den Brand MA, Wessels HJ, Willems PH, Venselaar H, Shaag A, Barghuti F, Reish O, Shohat M, Huynen MA, Smeitink JA, van den Heuvel LP, Nijtmans LG, American journal of human genetics 2009 Jun 84 (6): 718-27. PMID: 19463981