

## ARG10666 anti-NDUFA1 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes NDUFA1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-Fr, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NDUFA1
Antigen Species	Human
Immunogen	Synthetic peptide around the C-terminus of Human NDUFA1. (ISGVDRYYVSKGLENID)
Conjugation	Un-conjugated
Alternate Names	MWFE; ZNF183; NADH-ubiquinone oxidoreductase MWFE subunit; CI-MWFE; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 1; Complex I-MWFE

### Application Instructions

Application table	Application	Dilution
	ICC/IF	0.5 - 1 µg/ml
	IHC-Fr	0.5 - 1 µg/ml
	IHC-P	0.5 - 1 µg/ml
	WB	0.5 - 1 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Calculated Mw	8 kDa	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.025% Sodium azide and 2.5% BSA.
Preservative	0.025% Sodium azide
Stabilizer	2.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

---

**Database links**

[GeneID: 4694 Human](#)

[GeneID: 54405 Mouse](#)

[Swiss-port # O15239 Human](#)

[Swiss-port # O35683 Mouse](#)

**Gene Symbol**

NDUFA1

**Gene Full Name**

NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa

**Background**

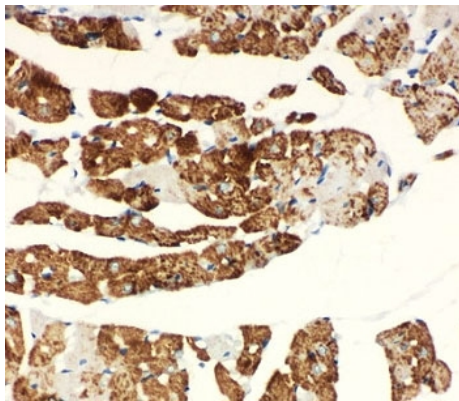
The human NDUFA1 gene codes for an essential component of complex I of the respiratory chain, which transfers electrons from NADH to ubiquinone. It has been noted that the N-terminal hydrophobic domain has the potential to be folded into an alpha-helix spanning the inner mitochondrial membrane with a C-terminal hydrophilic domain interacting with globular subunits of complex I. The highly conserved two-domain structure suggests that this feature is critical for the protein function and might act as an anchor for the NADH:ubiquinone oxidoreductase complex at the inner mitochondrial membrane. However, the NDUFA1 peptide is one of about 31 components of the "hydrophobic protein" (HP) fraction of complex I which is involved in proton translocation. Thus the NDUFA1 peptide may also participate in that function. [provided by RefSeq, Jul 2008]

**Function**

Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in 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. [UniProt]

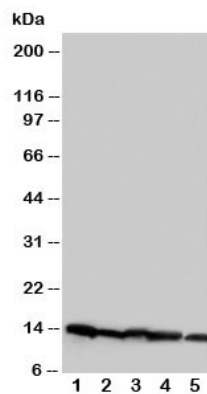
## Images

---



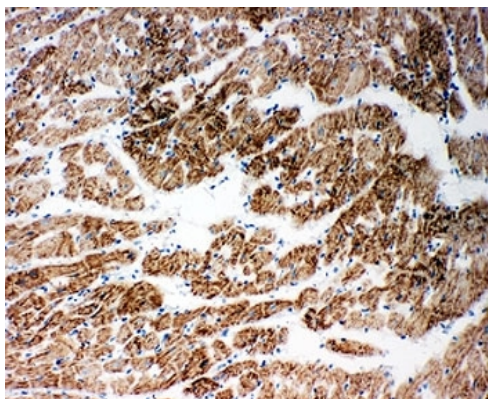
ARG10666 anti-NDUFA1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat heart tissue stained with ARG10666 anti-NDUFA1 antibody.



ARG10666 anti-NDUFA1 antibody WB image

Western blot: 1) Rat heart, 2) Rat liver, 3) Rat kidney, 4) Rat brain, and 5) Human HT1080 cell lysates stained with ARG10666 anti-NDUFA1 antibody.



ARG10666 anti-NDUFA1 antibody IHC-Fr image

Immunohistochemistry: Frozen section of Rat heart tissue stained with ARG10666 anti-NDUFA1 antibody.