

# Product datasheet

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# ARG41031 anti-NDUFS4 antibody

Package: 100 μl Store at: -20°C

#### **Summary**

Product Description Rabbit Polyclonal antibody recognizes NDUFS4

Tested Reactivity Hu, Ms, Rat
Tested Application IHC-P, WB
Host Rabbit
Clonality Polyclonal

Isotype IgG

Target Name NDUFS4
Species Human

Immunogen Recombinant fusion protein corresponding to aa. 1-175 of Human NDUFS4 (NP\_002486.1).

Conjugation Un-conjugated

Alternate Names NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial; AQDQ; Complex I-AQDQ; CI-

AQDQ; Complex I-18 kDa; NADH-ubiquinone oxidoreductase 18 kDa subunit; CI-18 kDa; CI-18

## **Application Instructions**

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	MCF7	
Observed Size	20 kDa	

### **Properties**

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

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. 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

Gene Symbol NDUFS4

Gene Full Name NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase)

Background This gene encodes an accessory subunit of the mitochondrial membrane respiratory chain NADH

dehydrogenase (Complex I), or NADH:ubiquinone oxidoreductase, the first multi-subunit enzyme complex of the mitochondrial respiratory chain. Complex I plays a vital role in cellular ATP production, the primary source of energy for many crucial processes in living cells. It removes electrons from NADH and passes them by a series of different protein-coupled redox centers to the electron acceptor ubiquinone. In well-coupled mitochondria, the electron flux leads to ATP generation via the building of a proton gradient across the inner membrane. Complex I is composed of at least 41 subunits, of which 7 are encoded by the mitochondrial genome and the remainder by nuclear genes. [provided by RefSeq,

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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]

Calculated Mw 20 kDa

Cellular Localization Mitochondrion inner membrane; Peripheral membrane protein; Matrix side. [UniProt]

#### **Images**



#### ARG41031 anti-NDUFS4 antibody WB image

Western blot: 25  $\mu g$  of MCF7 cell lysate stained with ARG41031 anti-NDUFS4 antibody at 1:1000 dilution.