

Product datasheet

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ARG56402 anti-NDUFA1 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes NDUFA1

Tested Reactivity Hu, Ms, Rat

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name NDUFA1

Species Human

Immunogen Recombinant protein of Human NDUFA1

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
	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	Mouse heart	

Properties

Form Liquid

Purification Affinity purification with immunogen.

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

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]

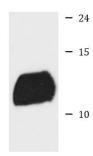
Function Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I),

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]

Calculated Mw 8 kDa

Images



Mouse heart

ARG56402 anti-NDUFA1 antibody WB image

Western blot: Mouse heart lysate stained with ARG56402 anti-NDUFA1 antibody.