

**ND4L Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17147b****Specification**

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**ND4L Antibody (C-term) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">P03901</a>
Other Accession	<a href="#">Q7J3C3</a> , <a href="#">YP_003024034.1</a>
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	65-93

**ND4L Antibody (C-term) - Additional Information****Gene ID** 4539**Other Names**

NADH-ubiquinone oxidoreductase chain 4L, NADH dehydrogenase subunit 4L, MT-ND4L, MTND4L, NADH4L, ND4L

**Target/Specificity**

This ND4L antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 65-93 amino acids from the C-terminal region of human ND4L.

**Dilution**

WB~~1:2000

FC~~1:25

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

ND4L Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ND4L Antibody (C-term) - Protein Information****Name** MT-ND4L ([HGNC:7460](#))

**Synonyms** MTND4L, NADH4L, ND4L

**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:[28844695](#)). Part of the enzyme membrane arm which is embedded in the lipid bilayer and involved in proton translocation (PubMed:[28844695](#)).

**Cellular Location**

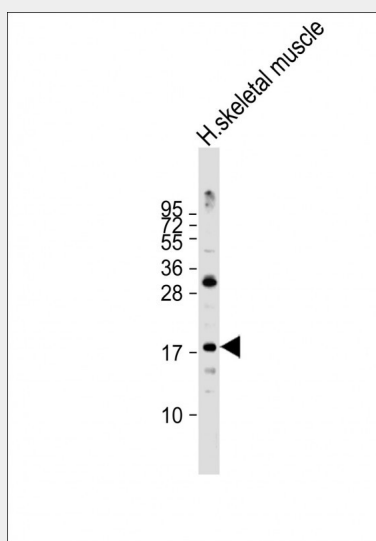
Mitochondrion inner membrane {ECO:0000250|UniProtKB:P03902}; Multi-pass membrane protein

**ND4L Antibody (C-term) - Protocols**

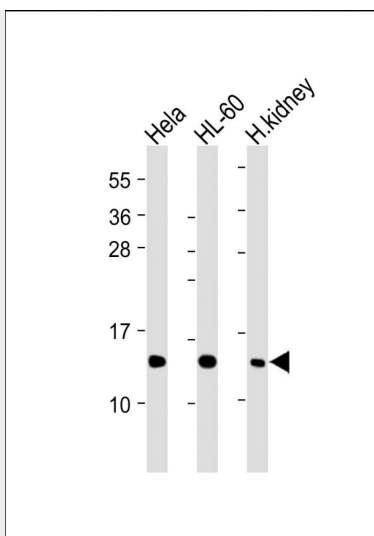
Provided below are standard protocols that you may find useful for product applications.

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

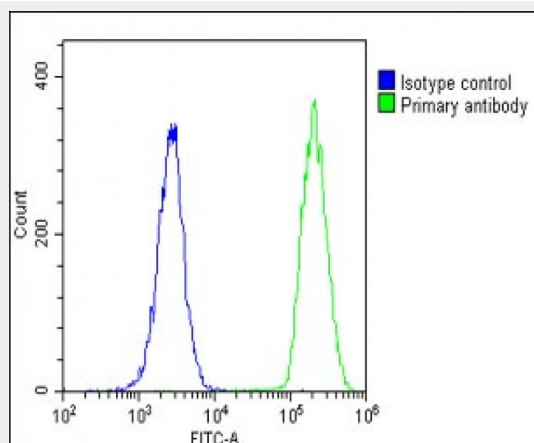
**ND4L Antibody (C-term) - Images**



Anti-ND4L Antibody (C-term) at 1:2000 dilution + human skeletal muscle lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 10 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-ND4L Antibody (C-term) at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: HL-60 whole cell lysate Lane 3: Human kidney lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 11 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing U-2 OS cells stained with AP17147b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP17147b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10, 000 events was performed.

### ND4L Antibody (C-term) - 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).

### ND4L Antibody (C-term) - References

Andrews, R.M., et al. Nat. Genet. 23 (2), 147 (1999) :  
Anderson, S., et al. Nature 290(5806):457-465(1981)

Submitted (08-JUL-2009) National Center for Biotechnology Information, NIH, Bethesda, MD 20894, USA :

Kogelnik, A.M., et al. Submitted (24-AUG-2006) Mitomap.org, Center for Molecular and Mitochondrial Medicine and Genetics (MAMMAG) University of California, University of California, Irvine, Irvine, CA 92697-3940, USA :

Kogelnik, A.M., et al. Submitted (18-APR-1997) Center for Molecular Medicine, Emory University School of Medicine, 1462 Clifton Road, Suite 420, Atlanta, GA 30322, USA :