

**Anti-NDUFS1 Antibody**  
**Catalog # AP53691****Specification**

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**Anti-NDUFS1 Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">P28331</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79468

**Anti-NDUFS1 Antibody - Additional Information****Gene ID** 4719**Other Names**

NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial; Complex I-75kD; CI-75kD

**Target/Specificity**

Recognizes endogenous levels of NDUFS1 protein.

**Dilution**

WB~~1/500 - 1/1000

IF~~1/50 - 1/200

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C.Stable for 12 months from date of receipt

**Anti-NDUFS1 Antibody - Protein Information****Name** NDUFS1**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:<a href="http://www.uniprot.org/citations/30879903" target="\_blank">30879903</a>, PubMed:<a href="http://www.uniprot.org/citations/31557978" target="\_blank">31557978</a>). Essential for catalysing the entry and efficient transfer of electrons within complex I (PubMed:<a href="http://www.uniprot.org/citations/31557978" target="\_blank">31557978</a>). Plays a key role in the assembly and stability of complex I and participates in the association of complex I with ubiquinol-cytochrome reductase complex (Complex III) to form supercomplexes (PubMed:<a href="http://www.uniprot.org/citations/30879903" target="\_blank">30879903</a>, PubMed:<a href="http://www.uniprot.org/citations/30879903" target="\_blank">30879903</a>, PubMed:<a href="http://www.uniprot.org/citations/30879903" target="\_blank">30879903</a>).

href="http://www.uniprot.org/citations/31557978" target="\_blank">31557978</a>).

#### Cellular Location

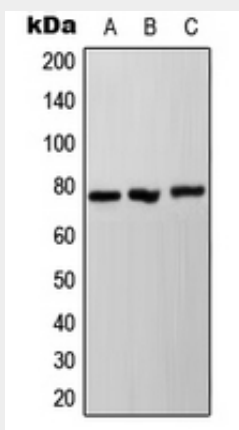
Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P15690};  
Matrix side {ECO:0000250|UniProtKB:P15690}

#### Anti-NDUFS1 Antibody - Protocols

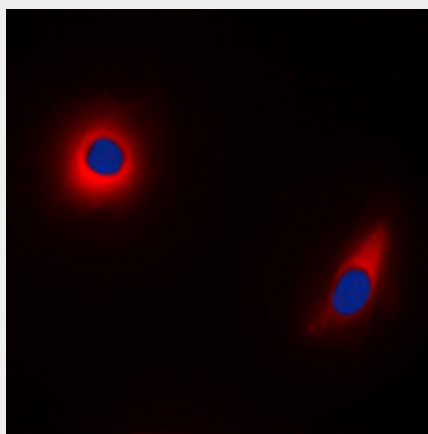
Provided below are standard protocols that you may find useful for product applications.

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

#### Anti-NDUFS1 Antibody - Images



Western blot analysis of NDUFS1 expression in HeLa (A), SP2/0 (B), PC12 (C) whole cell lysates.



Immunofluorescent analysis of NDUFS1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and

incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

**Anti-NDUFS1 Antibody - Background**

Rabbit polyclonal antibody to NDUFS1