10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-NDUFS1 Antibody
Catalog # AP53691

Specification

Anti-NDUFS1 Antibody - Product Information

Application	**WB, IF**
Primary Accession	P28331
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:30879903, PubMed:31557978). Essential for catalysing the entry and efficient transfer of electrons within complex I (PubMed:31557978). 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:30879903, PubMed:<a

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

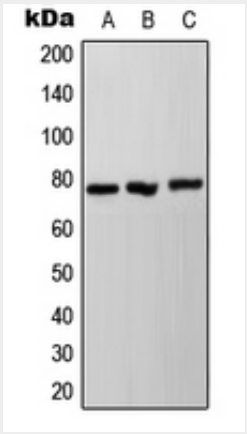
Cellular Location
Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P15690}; Matrix side {ECO:0000250|UniProtKB:P15690}

Anti-NDUFS1 Antibody - Protocols

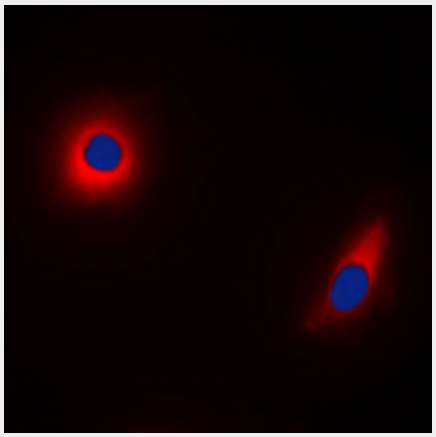
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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