

Anti-NDUFS1 Antibody

Catalog # AP53691

Product Information

Application	WB, IF
Primary Accession	P28331
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79468

Additional Information

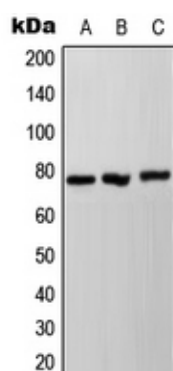
Gene ID	4719
Other Names	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial; Complex I-75kD; CI-75kD
Target/Specificity	Recognizes endogenous levels of NDUFS1 protein.
Dilution	WB~~1/500 - 1/1000 IF~~1/50 - 1/200
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

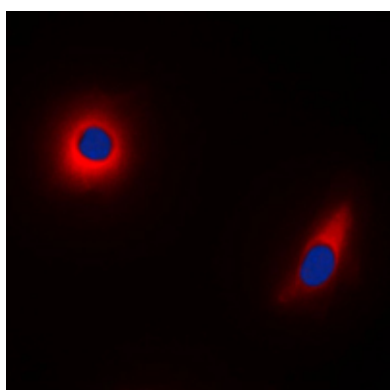
Name	NDUFS1
Function	Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which catalyzes electron transfer from NADH through the respiratory chain, using ubiquinone as an electron acceptor (PubMed: 30879903 , PubMed: 31557978). Essential for catalysing the entry 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: 31557978).
Cellular Location	Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250 UniProtKB:P15690}; Matrix side {ECO:0000250 UniProtKB:P15690}

Background

Images



Western blot analysis of NDUF51 expression in HeLa (A), SP2/O (B), PC12 (C) whole cell lysates.



Immunofluorescent analysis of NDUF51 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).

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