

Recombinant Anti-NDUFS1 Rabbit mAb

Catalog # AP95166

Product Information

Application	WB, IHC, FC, IP, IF/IC
Primary Accession	P28331
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	79468

Additional Information

Gene ID	4719
Other Names	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial; Complex I-75kD; CI-75kD
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human NDUFS1 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IP~~N/A IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

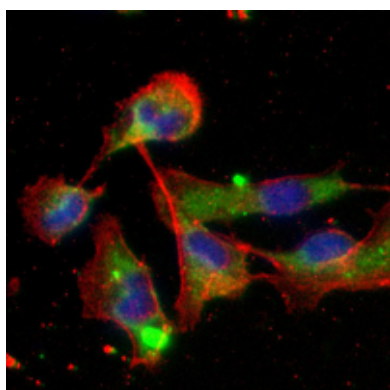
Protein Information

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}

Images



Western blot analysis of NDUF51 expression in Raji (A) whole cell lysates. (Predicted band size: 79 kD; Observed band size: 79 kD)



Immunofluorescent analysis of NDUF51 staining in Raji 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 an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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