

Anti-MT-ND5 Antibody

Catalog # AP60708

Product Information

Application	WB, IF/IC
Primary Accession	P03915
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Bovine, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67027

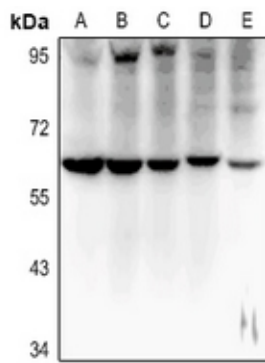
Additional Information

Gene ID	4540
Other Names	MTND5; NADH5; ND5; NADH-ubiquinone oxidoreductase chain 5; NADH dehydrogenase subunit 5
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MT-ND5. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IP (1/10 - 1/100) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

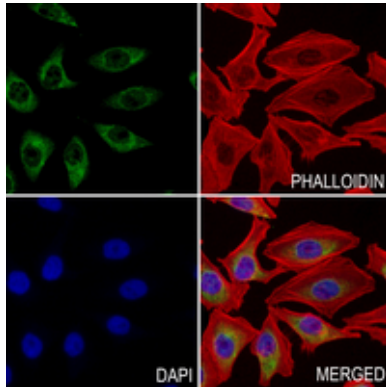
Protein Information

Name	MT-ND5
Synonyms	MTND5, NADH5, ND5
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: 15250827). Essential for the catalytic activity and assembly of complex I (PubMed: 15250827).
Cellular Location	Mitochondrion inner membrane {ECO:0000250 UniProtKB:P03920}; Multi-pass membrane protein

Images



Western blot analysis of MT-ND5 expression in HEK293T (A), MCF7 (B), A549 (C), C6 (D), CT26 (E) whole cell lysates. (Predicted band size: 67 kD; Observed band size: 67 kD)



Immunofluorescent analysis of MT-ND5 staining in MCF7 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 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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.