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ND5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6939b

Specification

ND5 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P03915
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**544-570**

ND5 Antibody (C-term) - Additional Information

Gene ID 4540

Other Names
NADH-ubiquinone oxidoreductase chain 5, NADH dehydrogenase subunit 5, MT-ND5, MTND5, NADH5, ND5

Target/Specificity
This ND5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 544-570 amino acids from the C-terminal region of human ND5.

Dilution
WB~~1:1000
IHC-P~~1:100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ND5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ND5 Antibody (C-term) - 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).

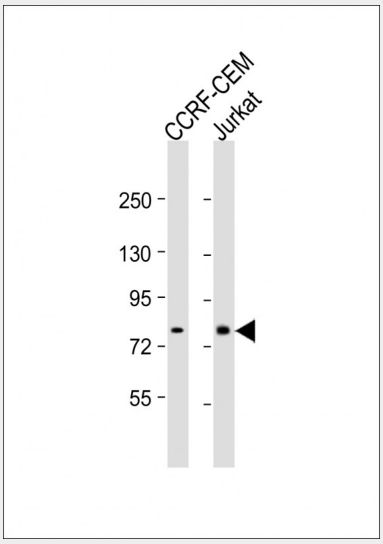
Cellular Location
Mitochondrion inner membrane {ECO:0000250|UniProtKB:P03920}; Multi-pass membrane protein

ND5 Antibody (C-term) - 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

ND5 Antibody (C-term) - Images



All lanes : Anti-ND5 Antibody (C-term) at 1:1000 dilution Lane 1: CCRF-CEM whole cell lysate Lane 2: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 67 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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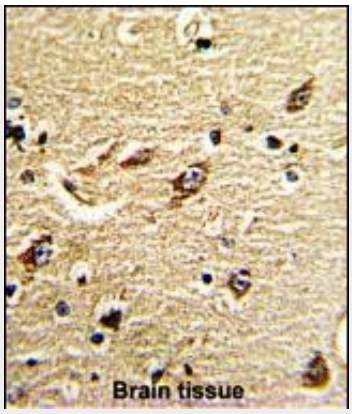
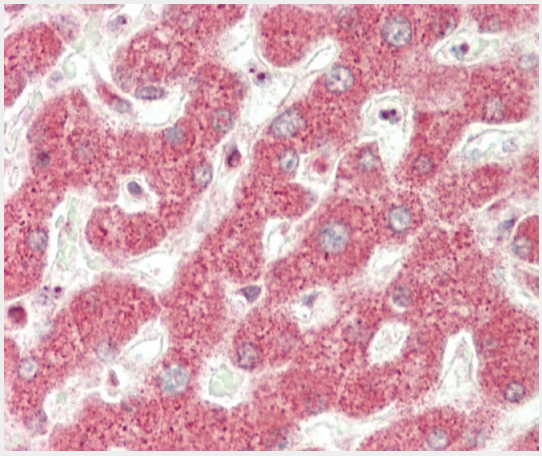
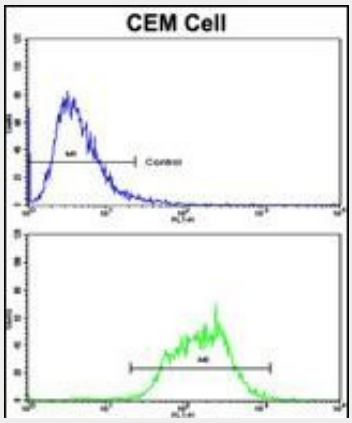


Formalin-fixed and paraffin-embedded human brain tissue reacted with ND5 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Formalin-fixed and paraffin-embedded H.liver tissue reacted with ND5 Antibody (C-term) (Cat#AP6939b).



Flow cytometric analysis of CEM cells using ND5 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ND5 Antibody (C-term) - Background

Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. Complex I functions in the

transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.