

# NDUFS1 Rabbit mAb

Catalog No.: A21192 **Recombinant**

## Basic Information

**Observed MW**

75kDa/79kDa

**Calculated MW**

79kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IHC-P

**Cross-Reactivity**

Human, Mouse, Rat

**CloneNo number**

ARC52613

## Background

The protein encoded by this gene belongs to the complex I 75 kDa subunit family. Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. This protein is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized. Mutations in this gene are associated with complex I deficiency. Several transcript variants encoding different isoforms have been found for this gene.

## Recommended Dilutions

**WB** 1:1000 - 1:5000**IHC-P** 1:100 - 1:500

## Immunogen Information

**Gene ID**

4719

**Swiss Prot**

P28331

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 80-290 of human NDUFS1 (NP\_004997.4).

**Synonyms**

CI-75k; MC1DN5; CI-75Kd; PRO1304; NDUFS1

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

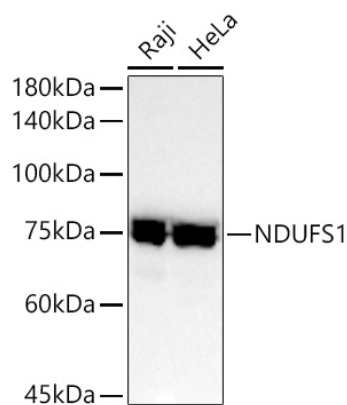
Affinity purification

**Storage**

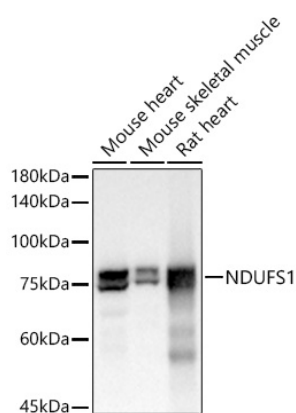
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

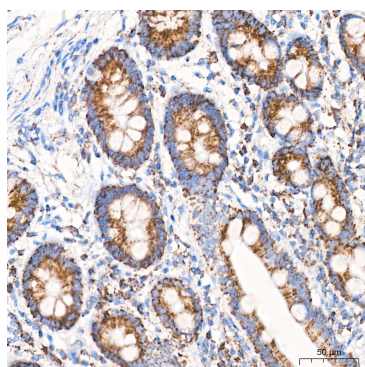
## Validation Data



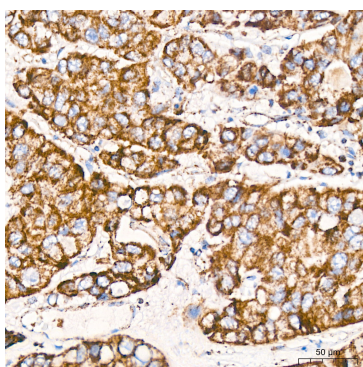
Western blot analysis of various lysates using NDUF51 Rabbit mAb (A21192) at 1:2000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 10s.



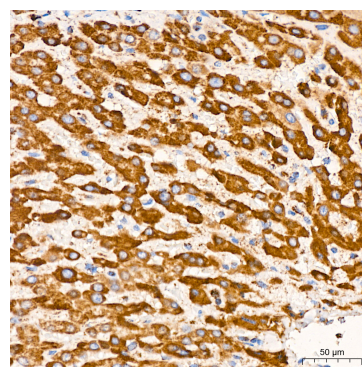
Western blot analysis of various lysates using NDUF51 Rabbit mAb (A21192) at 1:2000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 0.5s.



Immunohistochemistry analysis of NDUF51 in paraffin-embedded human colon tissue using NDUF51 Rabbit mAb (A21192) at a dilution of 1:400 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



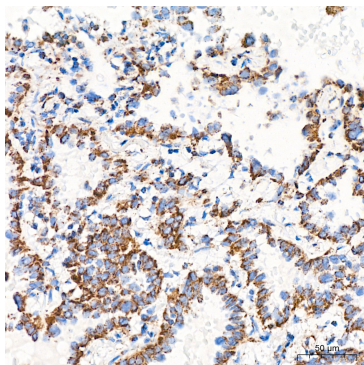
Immunohistochemistry analysis of NDUF51 in paraffin-embedded human liver cancer tissue using NDUF51 Rabbit mAb (A21192) at a dilution of 1:400 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



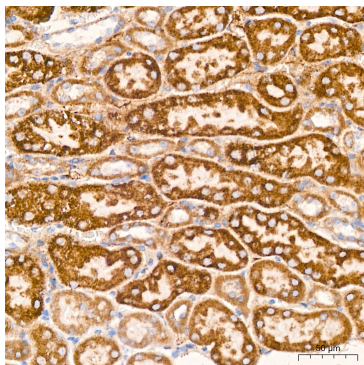
Immunohistochemistry analysis of NDUF51 in paraffin-embedded human liver tissue using NDUF51 Rabbit mAb (A21192) at a dilution of 1:400 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

## Validation Data

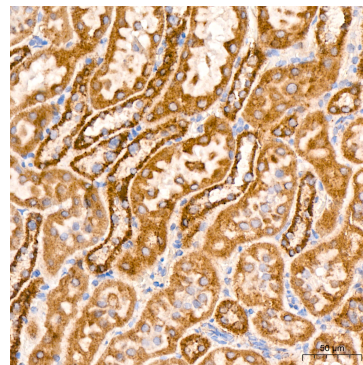
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Immunohistochemistry analysis of NDUFS1 in paraffin-embedded Human lung adenocarcinoma tissue using NDUFS1 Rabbit mAb (A21192) at a dilution of 1:400 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of NDUFS1 in paraffin-embedded mouse kidney tissue using NDUFS1 Rabbit mAb (A21192) at a dilution of 1:400 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of NDUFS1 in paraffin-embedded rat kidney tissue using NDUFS1 Rabbit mAb (A21192) at a dilution of 1:400 (40x lens).High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.