

For Research Use Only

# NDUFV2 Polyclonal antibody

Catalog Number:15301-1-AP

Featured Product

44 Publications



## Basic Information

**Catalog Number:**

15301-1-AP

**Concentration:**

333 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG7559

**GenBank Accession Number:**

BC001632

**GeneID (NCBI):**

4729

**UNIPROT ID:**

P19404

**Full Name:**

NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kDa

**Calculated MW:**

27 kDa

**Observed MW:**

24-27 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB: 1:5000-1:20000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:500-1:2000

IF/ICC: 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB, IHC, IF, IP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Positive Controls:**

WB: mouse heart tissue, rat heart tissue, rat skeletal muscle tissue

IP: mouse heart tissue,

IHC: human prostate cancer tissue, mouse brain tissue, mouse heart tissue

IF/ICC: HeLa cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

The NDUFV2 gene encodes the 24-kD subunit of the mitochondrial NADH:ubiquinone oxidoreductase (complex I of the respiratory chain). The protein belongs to the complex I 24 kDa subunit family. It is the core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. NDUFV2 constitutes one genetic risk factor for PD, and the mutation may well be a cause of complex I deficiency in this disease(PMID:9570948).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yingying Shi	34489398	Cell Death Dis	WB
Xianzhi Li	36058905	Mol Med	WB
Tianda Chen	26327164	Brain Res	WB, IF

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

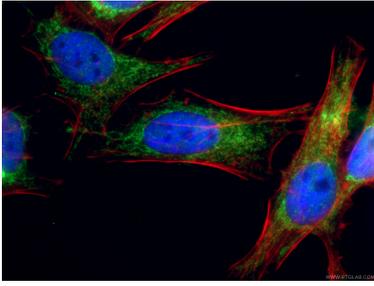
T: 4006900926

E: Proteintech-CN@ptglab.com

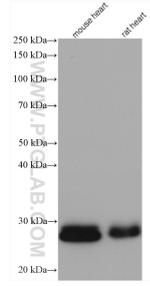
W: ptgcn.com

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## Selected Validation Data



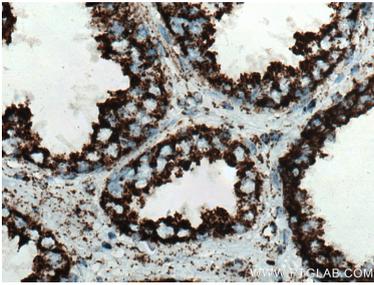
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 15301-1-AP (NDUFV2 antibody), at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Red: staining with alpha tubulin antibody 66031-1-Ig and CoraLite®594-Conjugated AffiniPure Goat Anti-mouse IgG(H+L). Blue: DAPI.



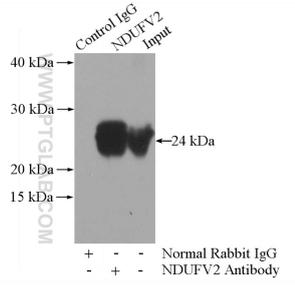
Various lysates were subjected to SDS PAGE followed by western blot with 15301-1-AP (NDUFV2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 15301-1-AP (NDUFV2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 15301-1-AP (NDUFV2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-NDUFV2 (IP:15301-1-AP, 3ug; Detection:15301-1-AP 1:400) with mouse heart tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15301-1-AP (NDUFV2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).