

# NDUFV1 Monoclonal antibody

Catalog Number: 68144-1-Ig

## Basic Information

**Catalog Number:**

68144-1-Ig

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2a

**Immunogen Catalog Number:**

AG32659

**GenBank Accession Number:**

BC015645

**GeneID (NCBI):**

4723

**UNIPROT ID:**

P49821

**Full Name:**

NADH dehydrogenase (ubiquinone)  
flavoprotein 1, 51kDa

**Calculated MW:**

51 kDa

**Observed MW:**

45 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

3E9D4

**Recommended Dilutions:**

WB 1:5000-1:50000

IHC 1:500-1:2000

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Species Specificity:**

Human, pig, rabbit, rat, mouse

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

**Positive Controls:**

**WB:** PC-12 cells, A549 cells, 4T1 cells, pig heart tissue,  
HeLa cells, HEK-293 cells, H9C2 cells, rabbit heart  
tissue

**IHC:** human lung cancer tissue, mouse skeletal muscle  
tissue

## Background Information

NDUFV1(NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial) is also named as UQOR1,Complex I-51kD and belongs to the complex I 51 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. It has 2 isoforms produced by alternative splicing. Defects in NDUFV1 are a cause of Leigh syndrome (LS) and mitochondrial complex I deficiency (MT-C1D).

## Storage

**Storage:**

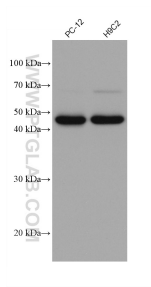
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

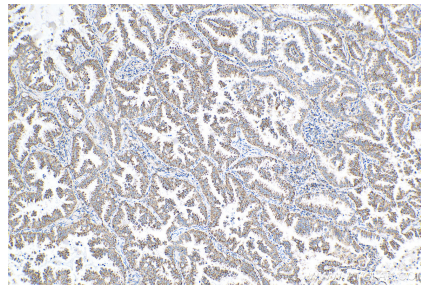
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68144-1-Ig (NDUFV1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 68144-1-Ig (NDUFV1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).