

For Research Use Only

NDUFV1 Monoclonal antibody

Catalog Number: 68144-1-Ig



Basic Information

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|---|--|--|
| Catalog Number: 68144-1-Ig | GenBank Accession Number: BC015645 | Purification Method: Protein A purification |
| Size: 150ul, Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 4723 | CloneNo.: 3E9D4 |
| Source: Mouse | UNIPROT ID: P49821 | Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 |
| Isotype: IgG2a | Full Name: NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa | |
| Immunogen Catalog Number: AG32659 | Calculated MW: 51 kDa | |
| | Observed MW: 45 kDa | |

Applications

Tested Applications:

WB, IHC, 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

DUFV1(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

*** 20ul sizes contain 0.1% BSA

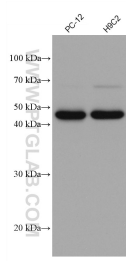
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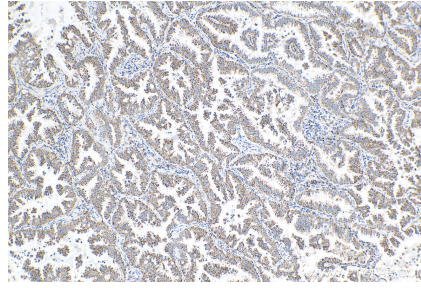
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Selected Validation Data



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).