For Research Use Only

NDUFS1 Polyclonal antibody

Catalog Number:12444-1-AP

Featured Product

86 Publications



GenBank Accession Number: **Purification Method:** Catalog Number: **Basic Information** 12444-1-AP BC030833 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 500 ug/ml by 4719 WB: 1:2000-1:10000 Nanodrop: IP: 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: protein lysate Source P28331 IHC: 1:250-1:1000 Rabbit Full Name: IF/ICC: 1:200-1:800 Isotype NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADHlgG coenzyme Q reductase) Immunogen Catalog Number: Calculated MW: AG3135 727 aa, 79 kDa Observed MW: 74-81 kDa **Applications Tested Applications: Positive Controls:** WB, IHC, IF/ICC, IP, ELISA WB : mouse kidney tissue, mouse liver tissue, HEK-293 **Cited Applications:** cells, A549 cells, HeLa cells, HEK-293 tissue, rat kidney WB, IHC, IF, CoIP tissue **Species Specificity:** IP: mouse lung tissue, human, mouse, rat IHC : human liver cancer tissue, **Cited Species:** IF/ICC : HepG2 cells, human, mouse, rat, drosophila 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 multisubunit NADH:ubiquinone oxidoreductase (75 kDa subunit, mitochondrial)(NDUFS1) is the first enzyme complex in the electron transport chain of mitochondria. It is also named as Complex I-75kD. By use of chaotropic agents, complex I can be fragmented into 3 different fractions: a flavoprotein fraction, an iron-sulfur protein (IP) fraction, and a hydrophobic protein (HP) fraction. NDUFS1 is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. NDUFS1 has some isoforms with the molecular mass of 68-81 kDa. **Notable Publications** Author Pubmed ID Journal Application Shao-Ming Shen 26415504 EMBO Rep WB Yang Ni 31557978 Cells WB **Rufeng Zhang** 31530015 FASEB J WB 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 *** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12444-1-AP (NDUFS1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



WB result of NDUFS1 antibody (12444-1-AP; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NDUFS1 transfected HEK-293 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 12444-1-AP (NDUFS1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 12444-1-AP (NDUFS1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 12444-1-AP (NDUFS1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 12444-1-AP (NDUFS1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NDUFS1 antibody (12444-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



IP result of anti-NDUFS1 (IP:12444-1-AP, 4ug; Detection:12444-1-AP 1:500) with mouse lung tissue lysate 2800ug.