For Research Use Only

NDUFS1 Polyclonal antibody

Catalog Number:12444-1-AP

Featured Product

B1 Publications

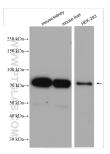


GenBank Accession Number: **Purification Method:** Catalog Number: **Basic Information** 12444-1-AP BC030833 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 500 ug/ml by 4719 WB 1:2000-1:10000 Nanodrop: IP 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: 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

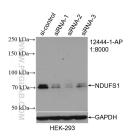
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

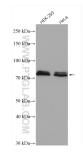
Selected Validation Data



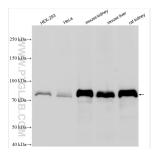
Various lysates were subjected to SDS PAGE followed by western blot with 12444-1-AP (NDUFS1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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.



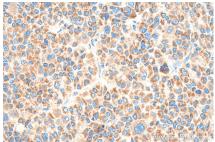
Various lysates were subjected to SDS PAGE followed by western blot with 12444-1-AP (NDUFS1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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



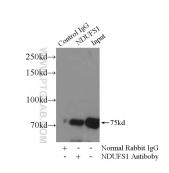
Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 12444-1-AP (NDUFS1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.