

For Research Use Only

NDUFA5 Polyclonal antibody

Catalog Number: 16640-1-AP **8 Publications**



Basic Information

Catalog Number: 16640-1-AP	GenBank Accession Number: BC000813	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop and 213 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4698	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500 IF/ICC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q16718	
Isotype: IgG	Full Name: NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa	
Immunogen Catalog Number: AG9995	Calculated MW: 13 kDa	
	Observed MW: 13 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

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 : HeLa cells, mouse brain tissue, rat brain tissue

IHC : mouse cerebellum tissue, human brain tissue

IF/ICC : HepG2 cells, HeLa cells

Background Information

NDUFA5, also named as CI-13kD-B and NDUA5, belongs to the complex I NDUFA5 subunit family. It is accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which functions in the transfer of electrons from NADH to the respiratory chain. NDUFA5, an enrichment of mitochondrial protein, can be used as a mitochondrial marker protein (PMID:21360670).

Notable Publications

Author	Pubmed ID	Journal	Application
Jeng-Yuan Shiau	26557148	Evid Based Complement Alternat Med	WB
Cong Wang	31721420	EMBO Rep	WB
Maria Soledad Alvarez	36362254	Int J Mol Sci	WB

Storage

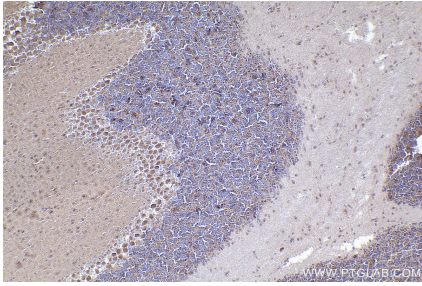
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

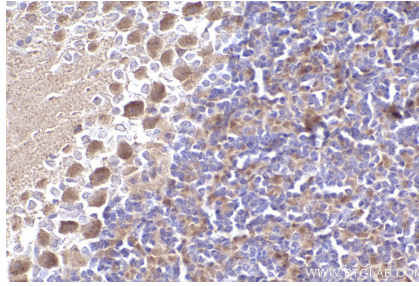
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

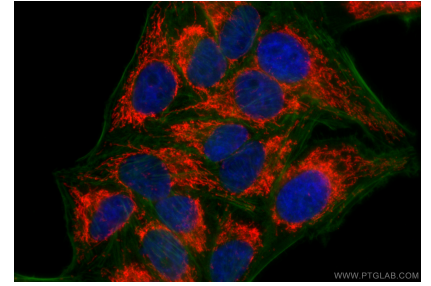
Selected Validation Data



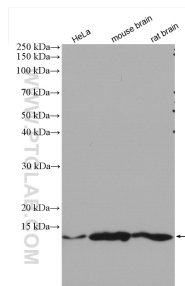
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 16640-1-AP (NDUFA5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 16640-1-AP (NDUFA5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NDUFA5 antibody (16640-1-AP) at dilution of 1:200 and CoraLite@594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).



HeLa cells were subjected to SDS PAGE followed by western blot with 16640-1-AP (NDUFA5 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.