

For Research Use Only

COQ4 Polyclonal antibody

Catalog Number: 16654-1-AP

Featured Product

10 Publications



Basic Information

Catalog Number:

16654-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10089

GenBank Accession Number:

BC011895

GeneID (NCBI):

51117

UNIPROT ID:

Q9Y3A0

Full Name:

coenzyme Q4 homolog (S. cerevisiae)

Calculated MW:

265 aa, 30 kDa

Observed MW:

32 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, 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 : mouse liver tissue, Transfected HEK-293 cells

IP : mouse liver tissue,

IHC : human liver tissue, human pancreas tissue

Background Information

Human coenzyme Q4 (COQ4), as a component of the coenzyme Q biosynthetic pathway, is required for the oxidative decarboxylation of the C1 carbon of Coenzyme Q in eukaryotic cells (PMID: 38295803). COQ4 deficiency manifests as an early-onset neurodegenerative disorder. COQ4 encodes a ubiquitously expressed 265-amino-acid protein that is peripherally associated with the mitochondrial inner membrane on the matrix side (PMID: 25658047, 34656997)

Notable Publications

Author	Pubmed ID	Journal	Application
Diran Herebian	29296619	Ann Clin Transl Neurol	WB
Lucia Laugwitz	34656997	J Med Genet	WB
Agustín Hidalgo-Gutiérrez	30482867	EMBO Mol Med	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

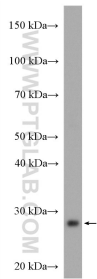
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

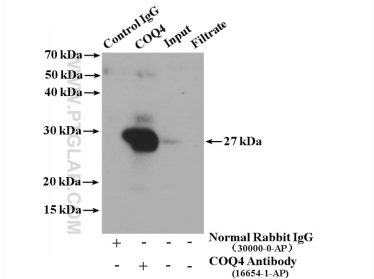
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



mouse liver tissue were subjected to SDS PAGE followed by western blot with 16654-1-AP (COQ4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-COQ4 (IP:16654-1-AP, 4ug; Detection:16654-1-AP 1:500) with mouse liver tissue lysate 6000 ug.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16654-1-AP (COQ4 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16654-1-AP (COQ4 Antibody) at dilution of 1:200 (under 40x lens).