

For Research Use Only

COQ5 Polyclonal antibody

Catalog Number: 17453-1-AP

8 Publications



Basic Information

Catalog Number:

17453-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 220 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10203

GenBank Accession Number:

BC107874

GeneID (NCBI):

84274

UNIPROT ID:

Q5HYK3

Full Name:

coenzyme Q5 homolog, methyltransferase (S. cerevisiae)

Calculated MW:

327 aa, 37 kDa

Observed MW:

32 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:20-1:200

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse

Positive Controls:

WB: mouse heart tissue, mouse liver tissue

IHC: human heart tissue, human brain tissue, human kidney tissue, human liver tissue, human lung tissue, human ovary tissue, human placenta tissue, human skin tissue, human spleen tissue, human testis tissue

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

COQ5 catalyzes the only C-methylation involved in the biosynthesis of coenzyme Q (Q or ubiquinone) in humans and yeast *Saccharomyces cerevisiae*. In humans, mutations in several COQ genes cause primary Q deficiency, and a decrease in Q biosynthesis is associated with mitochondrial, cardiovascular, kidney and neurodegenerative diseases (PMID: 25152161). Endogenous human COQ5 protein primarily existed as a mature form (m-COQ5, ~32 kDa) without the mitochondrial targeting sequence (MTS) in the mitochondria of human cells, in addition to the minor precursor form (p-COQ5, 37 kDa) of the full-length protein (PMID: 23354120, 27155576).

Notable Publications

Author	Pubmed ID	Journal	Application
María Rodríguez-Hidalgo	30228311	Sci Rep	WB
Agustín Hidalgo-Gutiérrez	30482867	EMBO Mol Med	WB
Eugen Widmeier	32381600	J Am Soc Nephrol	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

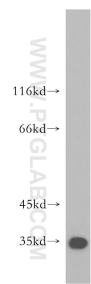
For technical support and original validation data for this product please contact:

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

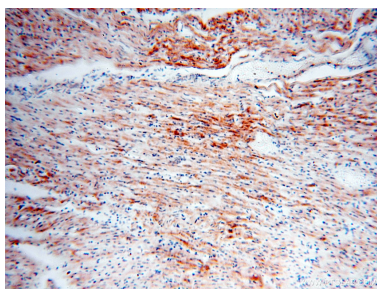
E: proteintech@ptglab.com
W: ptglab.com

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

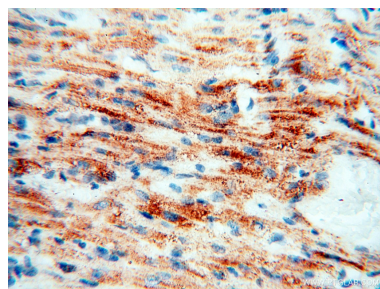
Selected Validation Data



mouse heart tissue were subjected to SDS PAGE followed by western blot with 17453-1-AP (COQ5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart using 17453-1-AP (COQ5 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart using 17453-1-AP (COQ5 antibody) at dilution of 1:100 (under 40x lens).