

For Research Use Only

COQ6 Polyclonal antibody

Catalog Number: 12481-1-AP

Featured Product

6 Publications



Basic Information

Catalog Number:

12481-1-AP

Size:

150ul, Concentration: 133 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3164

GenBank Accession Number:

BC014181

GeneID (NCBI):

51004

UNIPROT ID:

Q9Y2Z9

Full Name:

coenzyme Q6 homolog, monooxygenase (S. cerevisiae)

Calculated MW:

468 aa, 51 kDa

Observed MW:

51 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB: mouse heart tissue, mouse liver tissue, rat liver tissue

IHC: mouse ovary tissue, human heart 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

COQ6 (Coenzyme Q10 monooxygenase 6) is also named CGI-10 and belongs to the ubiH/COQ6 family. It is an evolutionarily conserved flavin-dependent monooxygenase required for the biosynthesis of coenzyme Q10 or ubiquinone. It has 3 isoforms with a molecular mass of 51 kDa, 43 kDa and 49 kDa. In the inner ear, Coq6 is expressed in the spiral ganglion, stria vascularis cells, and spiral ligament (PMID:21540551). Defects in COQ6 are the cause of coenzyme Q10 deficiency, primary, type 6 (COQ10D6).

Notable Publications

Author	Pubmed ID	Journal	Application
Agustín Hidalgo-Gutiérrez	30482867	EMBO Mol Med	WB
Yaakov Bentov	26552664	J Assist Reprod Genet	WB
Assaf Ben-Meir	30857157	Antioxidants (Basel)	IF

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

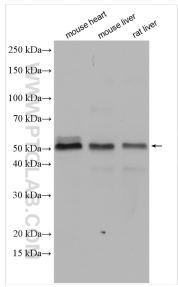
For technical support and original validation data for this product please contact:

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

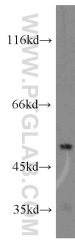
E: proteintech@ptglab.com
W: ptglab.com

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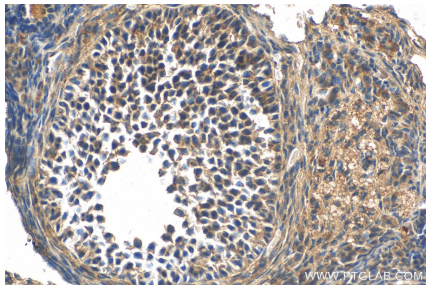
Selected Validation Data



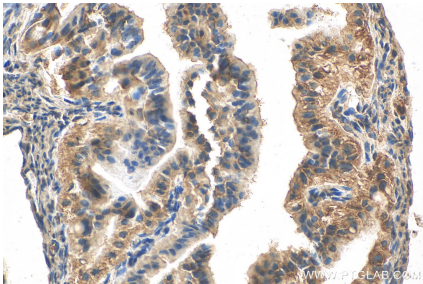
Various lysates were subjected to SDS PAGE followed by western blot with 12481-1-AP (COQ6 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



mouse heart tissue were subjected to SDS PAGE followed by western blot with 12481-1-AP (COQ6 antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse ovary tissue slide using 12481-1-AP (COQ6 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse ovary tissue slide using 12481-1-AP (COQ6 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).