

For Research Use Only

COQ6 Polyclonal antibody

Catalog Number: 12481-1-AP

Featured Product

6 Publications



Basic Information

Catalog Number: 12481-1-AP	GenBank Accession Number: BC014181	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 133 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 51004	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Source: Rabbit	Full Name: coenzyme Q6 homolog, monooxygenase (<i>S. cerevisiae</i>)	
Isotype: IgG	Calculated MW: 468 aa, 51 kDa	
Immunogen Catalog Number: AG3164	Observed MW: 51 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

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 heart tissue, mouse liver tissue, rat liver tissue

IHC: mouse ovary tissue, human heart tissue

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

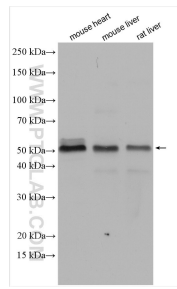
For technical support and original validation data for this product please contact:

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

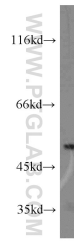
E: proteintech@ptglab.com
W: ptglab.com

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

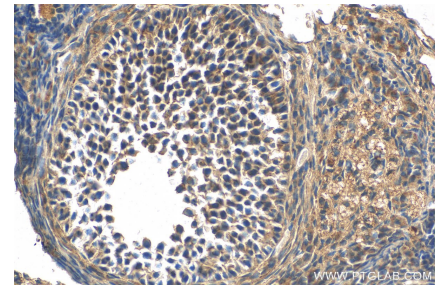
Selected Validation Data



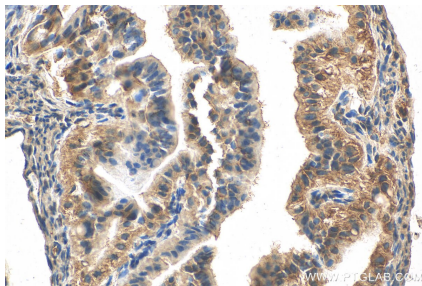
Various lysates were subjected to SDS PAGE followed by western blot with 12481-1-AP (COQ6 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).