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COQ9 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP4890c

Specification

COQ9 Antibody (Center) - Product Information

Application	**FC, IHC-P, WB,E**
Primary Accession	O75208
Other Accession	Q68FT1, Q8K1Z0
Reactivity	**Human, Mouse**
Predicted	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**35509**
Antigen Region	**156-184**

COQ9 Antibody (Center) - Additional Information

Gene ID 57017

Other Names
Ubiquinone biosynthesis protein COQ9, mitochondrial, COQ9, C16orf49

Target/Specificity
This COQ9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 156-184 amino acids from the Central region of human COQ9.

Dilution
FC~~1:10~50
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
COQ9 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

COQ9 Antibody (Center) - Protein Information

Name COQ9 (HGNC:25302)

Synonyms C16orf49

Function Membrane-associated protein that warps the membrane surface to access and bind aromatic isoprenes with high specificity, including ubiquinone (CoQ) isoprene intermediates and presents them directly to COQ7, therefore facilitating the COQ7-mediated hydroxylase step (PubMed:25339443, PubMed:30661980, PubMed:38425362). Participates in the biosynthesis of coenzyme Q, also named ubiquinone, an essential lipid-soluble electron transporter for aerobic cellular respiration (PubMed:25339443, PubMed:30661980).

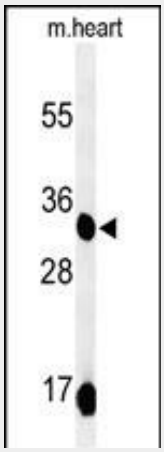
Cellular Location
Mitochondrion {ECO:0000250|UniProtKB:Q8K1Z0}. Note=Associates with cardiolipin-rich membranes which leads to the lipid bilayer deformation and then accessing to membrane-bound lipids

COQ9 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

COQ9 Antibody (Center) - Images



Western blot analysis of COQ9 Antibody (Center) (Cat. #AP4890c) in mouse heart tissue lysates (35ug/lane). COQ9 (arrow) was detected using the purified Pab.

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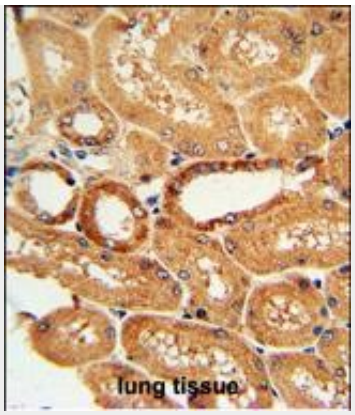
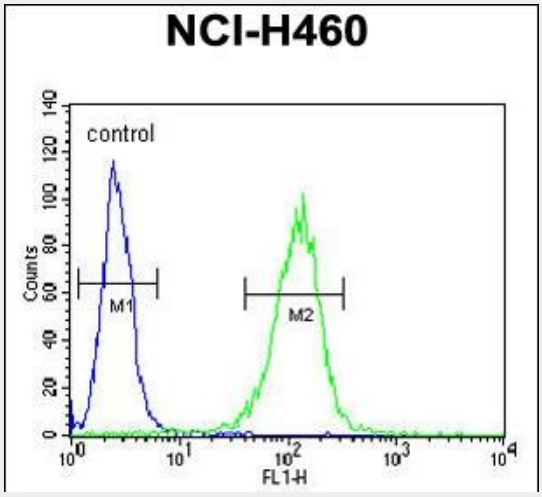


COQ9 Antibody (Center) (Cat. #AP4890c) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the COQ9 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



COQ9 Antibody (Center) (Cat. #AP4890c) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

COQ9 Antibody (Center) - Background

Coenzyme Q10 (CoQ10), or ubiquinone, is a mobile lipophilic electron carrier critical for electron transfer by the mitochondrial inner membrane respiratory chain. COQ9 is 1 of several enzymes involved in biosynthesis of CoQ10 and likely functions in modification of the benzoquinone ring.

COQ9 Antibody (Center) - References

Duncan, A.J., et al. Am. J. Hum. Genet. 84(5):558-566(2009)
Loftus, B.J., et al. Genomics 60(3):295-308(1999)