

**DATASHEET**

**COQ3 Rabbit Polyclonal Antibody**

CAT. NO. APA13109

**KEY FEATURES**

Target	COQ3	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

O-methyltransferase required for two non-consecutive steps during ubiquinone biosynthesis . Catalyzes the 2 O-methylation of 3,4-dihydroxy-5-(all-trans-decaprenyl)benzoic acid into 4-hydroxy-3-methoxy-5-(all-trans-decaprenyl)benzoic acid . Also catalyzes the last step of ubiquinone biosynthesis by mediating methylation of 3-demethylubiquinone into ubiquinone . Also able to mediate the methylation of 3-demethylubiquinol-10 into ubiquinol-10 .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to COQ3
Specificity	Recognizes endogenous levels of COQ3 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human COQ3
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 41 kD; Observed: 32; 41 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Hexaprenyldihydroxybenzoate methyltransferase mitochondrial; 2-polyprenyl-6-hydroxyphenol methylase; 3,4-dihydroxy-5-hexaprenylbenzoate methyltransferase; DHHB methyltransferase; DHHB-MT; DHHB-MTase; 3-demethylubiquinone-10 3-methyltransferase; Dihydroxyhexaprenylbenzoate methyltransferase
Gene Symbol	COQ3
Entrez Gene	51805(Human); 230027(Mouse); 29309(Rat)
SwissProt	Q9NZJ6(Human); Q8BMS4(Mouse); Q63159(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

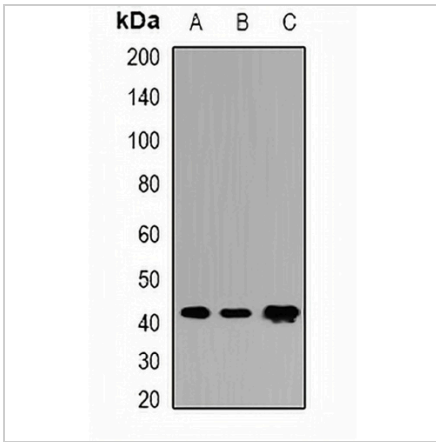
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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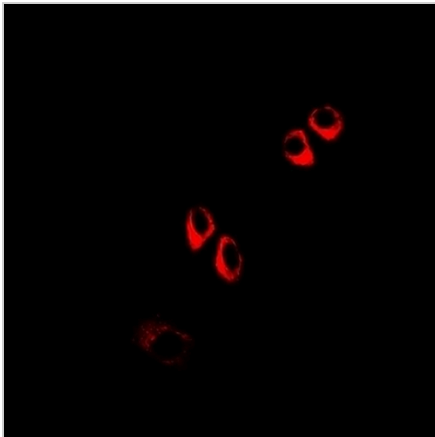
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**DATA**



Western blot analysis of COQ3 expression in NC1H460 (A), mouse heart (B), rat liver (C) whole cell lysates. (Predicted band size: 41 kD; Observed band size: 32; 41 kD)



Immunofluorescent analysis of COQ3 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.