

Rabbit COQ3 Polyclonal Antibody | anti-COQ3 antibody

COQ3 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285868	Rabbit	Human (Predicted Reactivity: Bovine)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

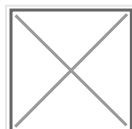
PRODUCT SYNONYMS

COQ3; Polyclonal Antibody; COQ3 Antibody (Center); Hexaprenyldihydroxybenzoate methyltransferase; mitochondrial; 2-polyprenyl-6-hydroxyphenol methylase; 4-dihydroxy-5-hexaprenylbenzoate methyltransferase; DHHB methyltransferase; DHHB-MT; DHHB-MTase; 3-demethylubiquinone-10 3-methyltransferase; Dihydroxyhexaprenylbenzoate methyltransferase; anti-COQ3 antibody

PRODUCT SPECIFICATIONS

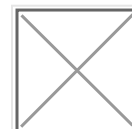
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This COQ3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 172-201 amino acids from the Central region of human COQ3.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	172-201
Sequence Length	369
Applicable Applications for anti-COQ3 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

COQ3 Antibody (Center) FC analysis of ZR-75-1 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human skeletal muscle reacted with COQ3 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)

Western blot analysis of COQ3 Antibody (Center) in K562 cell line lysates (35ug/lane). COQ3 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-COQ3 antibody	Ubiquinone, also known as coenzyme Q, or Q, is a critical component of the electron transport pathways of both eukaryotes and prokaryotes (Jonassen and Clarke, 2000 [PubMed 10777520]). This lipid consists of a hydrophobic isoprenoid tail and a quinone head group. The tail varies in length depending on the organism, but its purpose is to anchor coenzyme Q to the membrane. The quinone head group is responsible for the activity of coenzyme Q in the respiratory chain. COQ3 is an O-methyltransferase required for 2 steps in the biosynthetic pathway of coenzyme Q. This enzyme methylates an early coenzyme Q intermediate, 3,4-dihydroxy-5-polyprenylbenzoic acid, as well as the final intermediate in the pathway, converting demethyl-ubiquinone to coenzyme Q. The COQ3 is also capable of methylating the distinct prokaryotic early intermediate 2-hydroxy-6-polyprenyl phenol.
Product Categories/Family for anti-COQ3 antibody	Signal Transduction
References	Olsen,J.V., et.al., Cell 127 (3), 635-648 (2006)

NCBI AND UNIPROT INFORMATION

NCBI GI #	118600965
NCBI GeneID	51805
NCBI Accession #	NP_059117.3
NCBI GenBank Nucleotide #	NM_017421.3
UniProt Accession #	Q9NZJ6 ; Q5T061 ; Q6P4F0 ; Q8IXG6 ; Q96BG1 ; Q9H0N1 ; B3KPX0
Molecular Weight	41054
NCBI Official Full Name	ubiquinone biosynthesis O-methyltransferase, mitochondrial
NCBI Official Synonym Full Names	coenzyme Q3 methyltransferase
NCBI Official Symbol	COQ3
NCBI Official Synonym Symbols	DHHBMT; bA9819.1; DHHBMTASE; UG0215E05
NCBI Protein Information	ubiquinone biosynthesis O-methyltransferase, mitochondrial
UniProt Protein Name	Ubiquinone biosynthesis O-methyltransferase, mitochondrial
UniProt Gene Name	COQ3
UniProt Entry Name	COQ3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/coq3-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/285868>