

**COQ6 Antibody (N-term) Blocking peptide**  
Synthetic peptide  
Catalog # BP11456a**Specification**

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**COQ6 Antibody (N-term) Blocking peptide - Product Information**

Primary Accession [O9Y2Z9](#)  
Other Accession [NP\\_872282.1](#), [NP\\_872286.1](#)

**COQ6 Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 51004

**Other Names**

Ubiquinone biosynthesis monooxygenase COQ6, 11413-, Coenzyme Q10 monooxygenase 6, COQ6

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**COQ6 Antibody (N-term) Blocking peptide - Protein Information**

Name COQ6 {ECO:0000255|HAMAP-Rule:MF\_03193}

**Function**

FAD-dependent monooxygenase required for the C5-ring hydroxylation during ubiquinone biosynthesis. Catalyzes the hydroxylation of 3-hexaprenyl-4-hydroxybenzoic acid (HHB) to 3-hexaprenyl-4,5-dihydroxybenzoic acid (DHHB). The electrons required for the hydroxylation reaction may be funneled indirectly from NADPH via a ferredoxin/ferredoxin reductase system to COQ6 (By similarity). Is able to perform the deamination reaction at C4 of 3-hexaprenyl-4-amino-5-hydroxybenzoic acid (HHAB) to produce DHHB when expressed in yeast cells lacking COQ9, even if utilization of para-aminobenzoic acid (pABA) involving C4-deamination seems not to occur in bacteria, plants and mammals, where only C5 hydroxylation of HHB has been shown (PubMed:<a href="http://www.uniprot.org/citations/26260787" target="\_blank">26260787</a>).

**Cellular Location**

Mitochondrion inner membrane {ECO:0000255|HAMAP- Rule:MF\_03193}; Peripheral membrane protein {ECO:0000255|HAMAP- Rule:MF\_03193}; Matrix side {ECO:0000255|HAMAP-Rule:MF\_03193}. Golgi apparatus {ECO:0000255|HAMAP-Rule:MF\_03193}. Cell projection {ECO:0000255|HAMAP-Rule:MF\_03193}. Note=Localizes to cell processes and Golgi apparatus in podocytes. {ECO:0000255|HAMAP-Rule:MF\_03193}

**Tissue Location**

Widely expressed..

**COQ6 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**COQ6 Antibody (N-term) Blocking peptide - Images****COQ6 Antibody (N-term) Blocking peptide - References**

Simpson, J.C., et al. EMBO Rep. 1(3):287-292(2000)