

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

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:26260787).

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)