

**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 two non-consecutive steps during ubiquinone biosynthesis (PubMed: [26260787](http://www.uniprot.org/citations/26260787), PubMed: [38425362](http://www.uniprot.org/citations/38425362)). Required for the C5-ring hydroxylation during ubiquinone biosynthesis by catalyzing the hydroxylation of 4-hydroxy-3- (all-trans-decaprenyl)benzoic acid to 3,4-dihydroxy-5-(all-trans-decaprenyl)benzoic acid (PubMed: [26260787](http://www.uniprot.org/citations/26260787), PubMed: [38425362](http://www.uniprot.org/citations/38425362)). Also acts downstream of COQ4, for the C1-hydroxylation during ubiquinone biosynthesis by catalyzing the hydroxylation of 2-methoxy-6-(all-trans-decaprenyl)phenol to 2-methoxy-6-(all-trans-decaprenyl)benzene-1,4-diol (PubMed: [38425362](http://www.uniprot.org/citations/38425362)). The electrons required for the hydroxylation reaction are funneled indirectly to COQ6 from NADPH via a ferredoxin/ferredoxin reductase system composed of FDX2 and FDXR (PubMed: [26260787](http://www.uniprot.org/citations/26260787), PubMed: [38425362](http://www.uniprot.org/citations/38425362)).

**Cellular Location**

Mitochondrion inner membrane {ECO:0000255|HAMAP- Rule:MF\_03193, ECO:0000269|PubMed:27499296}; 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)