

PPCDC Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP13975a**Specification**

PPCDC Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q96CD2](#)**PPCDC Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 60490**Other Names**

Phosphopantothoenoylcysteine decarboxylase, PPC-DC, CoaC, PPCDC, COAC

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13975a was selected from the N-term region of PPCDC. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

PPCDC Antibody (N-term) Blocking peptide - Protein Information**Name** PPCDC**Synonyms** COAC**Function**

Catalyzes the decarboxylation of the cysteine moiety of 4- phosphopantothoenoylcysteine to form 4'-phosphopantotheine and this reaction forms part of the biosynthesis of coenzyme A.

PPCDC Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

PPCDC Antibody (N-term) Blocking peptide - Images

PPCDC Antibody (N-term) Blocking peptide - Background

Biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5) is an essential universal pathway in prokaryotes and eukaryotes. PPCDC (EC 4.1.1.36), one of the last enzymes in this pathway, converts phosphopantothenoylcysteine to 4'-phosphopantetheine (Daugherty et al., 2002 [PubMed11923312]).

PPCDC Antibody (N-term) Blocking peptide - References

Strauss, E., et al. Biochemistry 43(49):15520-15533(2004) Manoj, N., et al. Acta Crystallogr. D Biol. Crystallogr. 59 (PT 10), 1762-1766 (2003) : Daugherty, M., et al. J. Biol. Chem. 277(24):21431-21439(2002)