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Choline kinase alpha (CHK) Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP8179b

Specification

Choline kinase alpha (CHK) Antibody (C-term) Blocking peptide - Product Information

Primary Accession	P35790
Other Accession	NP_001268

Choline kinase alpha (CHK) Antibody (C-term) Blocking peptide - Additional Information

Gene ID 1119

Other Names
Choline kinase alpha, CK, CHETK-alpha, Ethanolamine kinase, EK, CHKA, CHK, CKI

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8179b was selected from the C-term region of human CHK. 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.

Choline kinase alpha (CHK) Antibody (C-term) Blocking peptide - Protein Information

Name CHKA

Synonyms CHK, CKI {ECO:0000303|PubMed:1618328}

Function
Plays a key role in phospholipid biosynthesis by catalyzing the phosphorylation of free choline to phosphocholine, the first step in phosphatidylcholine biosynthesis (PubMed:17007874, PubMed:19915674, PubMed:23416529, PubMed:34077757). Also phosphorylates ethanolamine, thereby contributing to phosphatidylethanolamine biosynthesis (PubMed:17007874, PubMed:19915674).

Has higher activity with choline (PubMed:17007874, PubMed:19915674). May contribute to tumor cell growth (PubMed:19915674).

Cellular Location
Cytoplasm, cytosol.

Choline kinase alpha (CHK) Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

Choline kinase alpha (CHK) Antibody (C-term) Blocking peptide - Images

Choline kinase alpha (CHK) Antibody (C-term) Blocking peptide - Background

The major pathway for the biosynthesis of phosphatidylcholine occurs via the CDP-choline pathway. Choline kinase alpha is the initial enzyme in the sequence and may play a regulatory role. This protein also catalyzes the phosphorylation of ethanolamine. The antibody for this protein recognizes both isoforms.