

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](/product/products/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: [19915674](http://www.uniprot.org/citations/19915674), PubMed: [34077757](http://www.uniprot.org/citations/34077757), PubMed: [17007874](http://www.uniprot.org/citations/17007874)). Also phosphorylates ethanolamine, thereby contributing to phosphatidylethanolamine biosynthesis (PubMed: [19915674](http://www.uniprot.org/citations/19915674), PubMed: [17007874](http://www.uniprot.org/citations/17007874)). Has higher activity with choline (PubMed: [19915674](http://www.uniprot.org/citations/19915674))

target="_blank">19915674, PubMed:17007874). 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.