

**CHK Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7064a****Specification**

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**CHK Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P35790](#)**CHK Antibody (N-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 [AP7064a](/product/products/AP7064a) was selected from the N-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.

**CHK Antibody (N-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), PubMed:[17007874](http://www.uniprot.org/citations/17007874)).

target="\_blank">17007874</a>). May contribute to tumor cell growth (PubMed:<a href="http://www.uniprot.org/citations/19915674" target="\_blank">19915674</a>).

**Cellular Location**

Cytoplasm, cytosol.

**CHK Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**CHK Antibody (N-term) Blocking Peptide - Images****CHK Antibody (N-term) Blocking Peptide - Background**

The dominant pathway for biosynthesis of phosphatidylcholine occurs through the CDP-choline pathway. Choline kinase alpha (CHK) is the first enzyme in the pathway and may thereby play an upstream regulatory role in lipid transport and metabolism. CHK additionally catalyzes phosphorylation of ethanolamine.