

**CTPS Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP5337b****Specification**

---

**CTPS Antibody (C-term) Blocking peptide - Product Information**

Primary Accession [P17812](#)  
Other Accession [NP\\_001896.2](#)

**CTPS Antibody (C-term) Blocking peptide - Additional Information**

**Gene ID** 1503

**Other Names**

CTP synthase 1, CTP synthetase 1, UTP--ammonia ligase 1, CTPS1 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=2519" target="\_blank">HGNC:2519</a>)

**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.

**CTPS Antibody (C-term) Blocking peptide - Protein Information**

**Name** CTPS1 ([HGNC:2519](#))

**Function**

This enzyme is involved in the de novo synthesis of CTP, a precursor of DNA, RNA and phospholipids. Catalyzes the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as a source of nitrogen. This enzyme and its product, CTP, play a crucial role in the proliferation of activated lymphocytes and therefore in immunity.

**Cellular Location**

Cytoplasm, cytosol. Note=Mainly cytosolic but when active detected in long filamentous structures (PubMed:25223282). Co-localizes with TNK2 in the cytosolic filaments (By similarity). {ECO:0000250|UniProtKB:P70698, ECO:0000269|PubMed:25223282}

**Tissue Location**

Widely expressed..

## **CTPS Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

## **CTPS Antibody (C-term) Blocking peptide - Images**

## **CTPS Antibody (C-term) Blocking peptide - Background**

The catalytic conversion of UTP to CTP is accomplished by the enzyme cytidine-5-prime-triphosphate synthetase. The enzyme is important in the biosynthesis of phospholipids and nucleic acids, and plays a key role in cell growth, development, and tumorigenesis. The region to which the CTPS gene has been mapped is the location of breakpoints involved in several tumor types.

## **CTPS Antibody (C-term) Blocking peptide - References**

Higgins, M.J., et al. Nucleosides Nucleotides Nucleic Acids 27(6):850-857(2008)Higgins, M.J., et al. J. Biol. Chem. 282(40):29493-29503(2007)Chang, Y.F., et al. J. Biol. Chem. 282(24):17613-17622(2007)