

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 (HGNC:2519)

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)