

**CTPS2 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13030b****Specification**

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**CTPS2 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q9NRF8](#)**CTPS2 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 56474**Other Names**

CTP synthase 2, CTP synthetase 2, UTP--ammonia ligase 2, CTPS2

**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.

**CTPS2 Antibody (C-term) Blocking peptide - Protein Information****Name** CTPS2**Function**

Catalyzes the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as the source of nitrogen. Constitutes the rate-limiting enzyme in the synthesis of cytosine nucleotides.

**CTPS2 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**CTPS2 Antibody (C-term) Blocking peptide - Images****CTPS2 Antibody (C-term) Blocking peptide - Background**

The protein encoded by this gene catalyzes the formation of CTP from UTP with the concomitant deamination of glutamine to glutamate. This protein is the rate-limiting enzyme in the synthesis of cytosine nucleotides, which play an important role in various metabolic processes and provide the precursors necessary for the synthesis of RNA and DNA. Cancer cells that exhibit increased cell

proliferation also exhibit an increased activity of this encoded protein. Thus, this protein is an attractive target for selective chemotherapy. Three alternatively spliced transcript variants encoding the same protein have been described for this gene.

#### **CTPS2 Antibody (C-term) Blocking peptide - References**

Kassel, K.M., et al. J. Biol. Chem. 285(44):33727-33736(2010) Olsen, J.V., et al. Cell 127(3):635-648(2006) Han, G.S., et al. J. Biol. Chem. 280(46):38328-38336(2005) Ross, M.T., et al. Nature 434(7031):325-337(2005) van Kuilenburg, A.B., et al. Biochim. Biophys. Acta 1492 (2-3), 548-552 (2000) :