

CTPS2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8779a**Specification**

CTPS2 Antibody (N-term) - Product Information

Application	FC, WB,E
Primary Accession	Q9NRF8
Other Accession	Q5U2N0 , P70303 , Q1RMS2
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	65678
Antigen Region	77-105

CTPS2 Antibody (N-term) - Additional Information**Gene ID** 56474**Other Names**

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

Target/Specificity

This CTPS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 77-105 amino acids from the N-terminal region of human CTPS2.

Dilution

FC~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CTPS2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CTPS2 Antibody (N-term) - Protein Information**Name** CTPS2

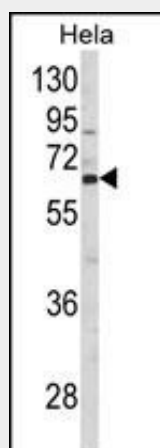
Function Catalyzes the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as the source of nitrogen. Constitutes the rate-limiting enzyme in the synthesis of cytosine nucleotides.

CTPS2 Antibody (N-term) - Protocols

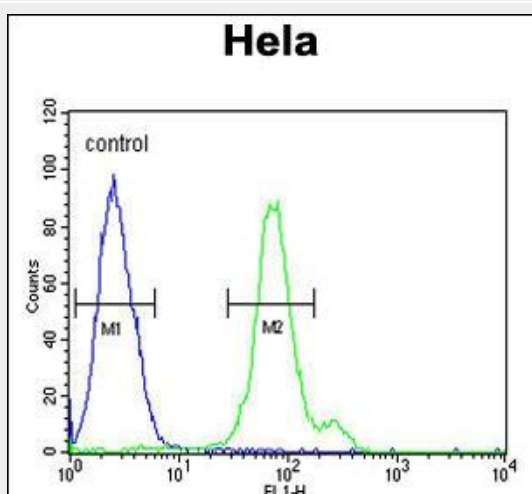
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CTPS2 Antibody (N-term) - Images



Western blot analysis of CTPS2 Antibody (N-term) (Cat. #AP8779a) in HeLa cell line lysates (35ug/lane). CTPS2 (arrow) was detected using the purified Pab.



CTPS2 Antibody (N-term) (Cat. #AP8779a) flow cytometric analysis of HeLa cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary

antibodies were used for the analysis.

CTPS2 Antibody (N-term) - Background

CTPS2 catalyzes the formation of CTP from UTP with the concomitant eamination 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.

CTPS2 Antibody (N-term) - References

Olsen,J.V., et.al., Cell 127 (3), 635-648 (2006)