

### 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 <u>Q5U2N0</u>, <u>P70303</u>, <u>Q1RMS2</u>

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



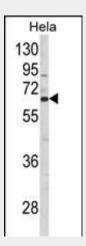
**Function** Catalyzes the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as the source of nitrogen. Constitutes the rate-limiting enzyme in the synthesis of cytosine nucleotides.

#### CTPS2 Antibody (N-term) - Protocols

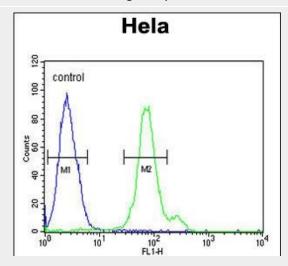
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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)