

CTPS Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51126**Specification**

CTPS Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	P17812
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67 KDa

CTPS Antibody - Additional Information**Gene ID** 1503**Other Names**

CTP synthase 1, CTP synthetase 1, UTP--ammonia ligase 1, CTPS1 (HGNC:2519)

Dilution

WB~~1:1000
IHC-P~~N/A
E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C.Stable for 12 months from date of receipt

CTPS Antibody - 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 - 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](#)

CTPS Antibody - Images**CTPS Antibody - Background**

Catalyzes the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as the source of nitrogen.

CTPS Antibody - References

Yamauchi M., et al. EMBO J. 9:2095-2099(1990).
Gregory S.G., et al. Nature 441:315-321(2006).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Han G.-S., et al. J. Biol. Chem. 280:38328-38336(2005).
Olsen J.V., et al. Cell 127:635-648(2006).