

CTPS Polyclonal Antibody
Catalog # AP69336

Specification

CTPS Polyclonal Antibody - Product Information

Application	WB
Primary Accession	P17812
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

CTPS Polyclonal Antibody - Additional Information

Gene ID 1503

Other Names

CTPS1; CTPS; CTP synthase 1; CTP synthetase 1; UTP--ammonia ligase 1

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

CTPS Polyclonal 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

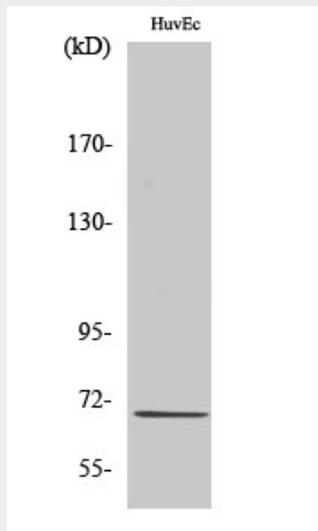
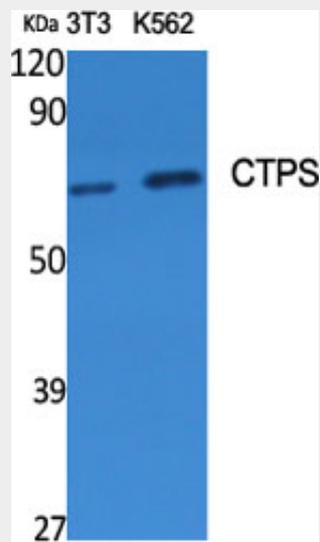
Widely expressed..

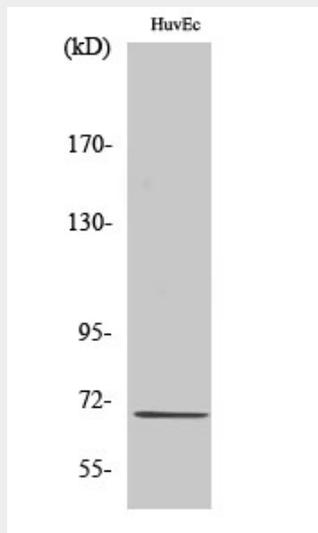
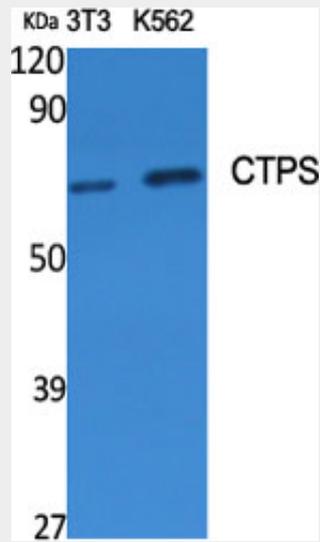
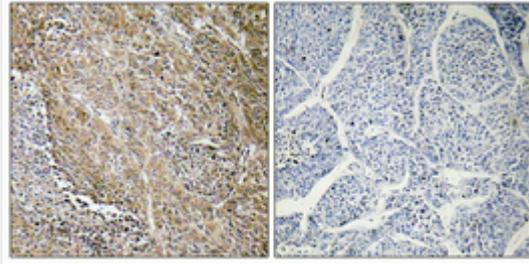
CTPS Polyclonal Antibody - Protocols

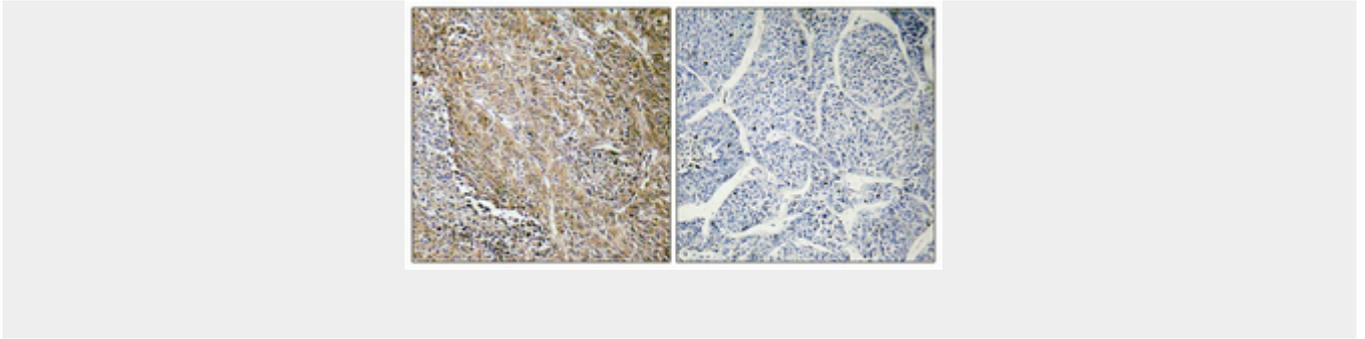
Provided below are standard protocols that you may find useful for product applications.

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

CTPS Polyclonal Antibody - Images







CTPS Polyclonal Antibody - Background

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.