

CTPS Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51126

Product Information

Application	WB, IHC-P
Primary Accession	P17812
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	66690

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
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

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..

Background

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

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).

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