
Product Name: CTPS Rabbit Polyclonal Antibody**Catalog #: APRab09513**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
Molecular Weight	67kDa

Antigen Information

Gene Name	CTPS1
Alternative Names	CTPS1; CTPS; CTP synthase 1; CTP synthetase 1; UTP--ammonia ligase 1
Gene ID	1503.0
SwissProt ID	P17812
Immunogen	The antiserum was produced against synthesized peptide derived from human CTPS. AA range:60-109

Background

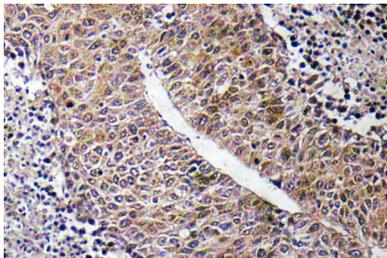
This gene encodes an enzyme responsible for the catalytic conversion of UTP (uridine triphosphate) to CTP (cytidine

triphosphate). This reaction is an important step in the biosynthesis of phospholipids and nucleic acids. Activity of this protein is important in the immune system, and loss of function of this gene has been associated with immunodeficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014], catalytic activity: ATP + UTP + NH₃ = ADP + phosphate + CTP, enzyme regulation: Activated by GTP and inhibited by CTP, function: Catalyzes the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as the source of nitrogen, pathway: Pyrimidine metabolism; CTP biosynthesis via de novo pathway; CTP from UDP: step 2/2, similarity: Belongs to the CTP synthase family, similarity: Contains 1 glutamine amidotransferase type-1 domain,

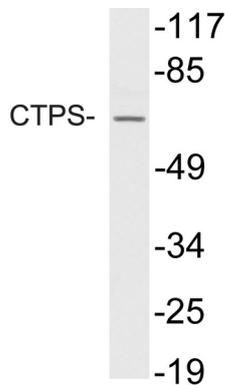
Research Area

Pyrimidine metabolism;

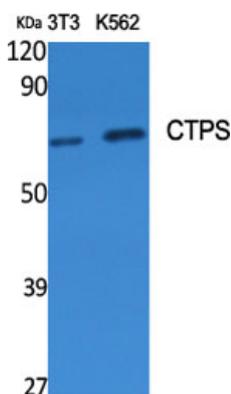
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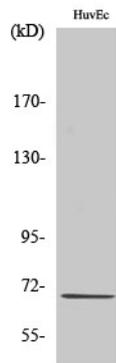
Immunohistochemistry analysis of CTPS antibody in paraffin-embedded human liver carcinoma tissue.



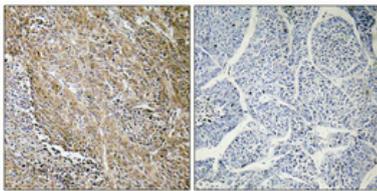
Western blot analysis of lysate from HUVEC cells, using CTPS antibody.



Western Blot analysis of various cells using CTPS Polyclonal Antibody diluted at 1:500



Western Blot analysis of HuvEc cells using CTPS Polyclonal Antibody diluted at 1: 500



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100 (4°,overnight) . High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.