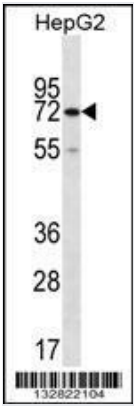
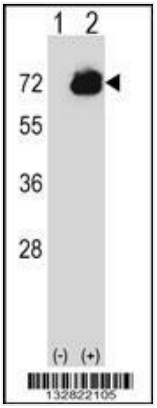
CTPS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CTPS2, Polyclonal Antibody
Full Product Name	CTPS2, CT (CTPS2, CTP synthase 2, CTP synthetase 2, UTP-ammonia ligase 2)
Product Gene Name	anti-CTPS2 antibody
Product Synonym Names	Anti -CTPS2, CT (CTPS2, CTP synthase 2, CTP synthetase 2, UTP-ammonia ligase 2)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	65,678 Da
Chromosome Location	Chromosome: X; NC_000023.10 (16606122..16731059, complement). Location: Xp22
OMIM	300380
3D Structure	ModBase 3D Structure for Q9NRF8
Immunogen	CTPS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 449-479 amino acids from the C-terminal region of human CTPS2.
Product Categories/Family for anti-CTPS2 antibody	Antibodies; Abs to Enzymes; Synthase
Applications Tested/Suitable for anti-CTPS2 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-CTPS2 antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500
Related Product Information for anti-CTPS2 antibody	The protein encoded by this gene catalyzes the formation of CTP from UTP with the concomitant deamination 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. Three alternatively spliced transcript variants encoding the same protein have been described for this gene.
Other Notes	Small volumes of anti-CTPS2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CTPS2 purchase	MBS6010736 is an antibody targeting CTPS2. Also known as CTPS2, CT (CTPS2, CTP synthase 2, CTP synthetase 2, UTP-ammonia ligase 2). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CTPS2 antibody
CTPS2 Antibody (C-term) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the CTPS2 antibody detected the CTPS2 protein (arrow).



Western Blot (WB) of anti-CTPS2 antibody
Western blot analysis of CTPS2 (arrow) using rabbit polyclonal CTPS2 Antibody (C-term) . 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the CTPS2 gene.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTPS2. It may not necessarily be applicable to this product.

NCBI GI #	221316689
NCBI GeneID	56474
NCBI Accession #	NP_001137474.1
UniProt Primary Accession #	Q9NRF8
UniProt Secondary Accession #	Q9BRI0; Q9H809; Q9H8K9; B3KWM2
UniProt Related Accession #	Q9NRF8
GenBank Nucleotide #	NM_001144002.1
NCBI Official Full Name	CTP synthase 2
NCBI Official Synonym Full Names	CTP synthase 2
NCBI Official Symbol	CTPS2
UniProt Protein Name	CTP synthase 2
UniProt Synonym Protein Names	CTP synthetase 2; UTP--ammonia ligase 2
Protein Family	CTP synthase
UniProt Gene Name	CTPS2
UniProt Entry Name	PYRG2_HUMAN
NCBI Protein Information	CTP synthase 2; CTP synthase II; UTP-ammonia ligase 2; CTP synthetase type 2; cytidine 5'-triphosphate synthetase 2
NCBI Summary for CTPS2	The protein encoded by this gene catalyzes the formation of CTP from UTP with the concomitant deamination 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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

UniProt Comments for CTPS2	CTPS2: 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. Belongs to the CTP synthase family. Protein type: Nucleotide Metabolism - pyrimidine; EC 6.3.4.2; Ligase Chromosomal Location of Human Ortholog: Xp22 Cellular Component: mitochondrion; cytosol Molecular Function: CTP synthase activity; ATP binding Biological Process: nucleobase, nucleoside and nucleotide interconversion; nucleobase, nucleoside and nucleotide metabolic process; pyrimidine nucleotide metabolic process; glutamine metabolic process
Research Articles on CTPS2	**1.** CTPS2 was identified by genome-wide gene expression analyses as correlated with cellular sensitivity to cisplatin and carboplatin.
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