CTPS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CTPS2, Polyclonal Antibody
Full Product Name	CTPS2 (CTP Synthetase 2, UTP-ammonia Ligase 2, CTP Synthase 2) (MaxLight 550)
Product Gene Name	anti-CTPS2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CTPS2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
OMIM	300380
3D Structure	ModBase 3D Structure for Q9NRF8
Immunogen	Full length human CTPS2, aa1-586 (NP_062831.3).
Immunogen Sequence	MKYILVTGGVISGIGKGIIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFVLNDGGEVDLDLGNYERFLDINLYKDNNITTGKIYQHVINKERRGDY
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-CTPS2 antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-CTPS2 antibody	Western Blot (WB)
Application Notes for anti-CTPS2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CTPS2 antibody	CTPS2 catalyzes the formation of CTP from UTP with the concomitant eamination of glutamine to glutamate. This protein is the rate-limiting enzyme in
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 neces

Searchable Terms for CTPS2 purchase	MBS6375046 is an antibody targeting CTPS2. Also known as CTPS2 (CTP Synthetase 2, UTP-ammonia Ligase 2, CTP Synthase 2) (MaxLight 550). R

ADDITIONAL DETAILS

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

NCBI GI #	28559083
NCBI GeneID	56474
NCBI Accession #	NP_062831.3
UniProt Primary Accession #	Q9NRF8
UniProt Related Accession #	Q9NRF8
GenBank Nucleotide #	NM_019857.3
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
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: EC 6.3.4.2; Ligase; Nucleotide Metabolism - pyrimidine Chromosomal Location of Human Ortholog: Xp22 Cellular Component: mitochondrion; cytosol Molecular Function: CTP synthase activity; ATP binding Biological Process: pyrimidine nucleotide metabolic process; nucleobase, nucleoside and nucleotide metabolic process; nucleobase, nucleoside and nucleotide interconversion; 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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