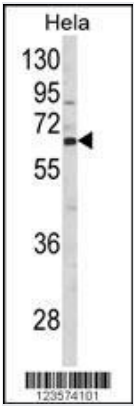
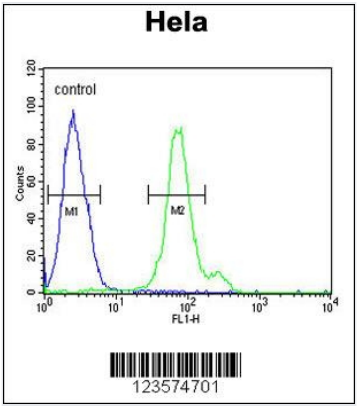
CTPS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CTPS2, Polyclonal Antibody
Full Product Name	CTPS2, NT (CTP Synthetase 2, UTP-ammonia Ligase 2, CTP Synthase 2) (PE)
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 R-Phycoerythrin (PE).
Purity/Purification	Purified by Immunoaffinity 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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial 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	Synthetic peptide selected from the N-term region of human CTPS2 (KLH).
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CTPS2 antibody	Antibodies; Enzymes; Synthetase
Applications Tested/Suitable for anti-CTPS2 antibody	Western Blot (WB), FLISA
Application Notes for anti-CTPS2 antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CTPS2 antibody	MBS6470831 is an antibody targeting CTPS2. Also known as CTPS2, NT (CTP Synthetase 2, UTP-ammonia Ligase 2, CTP Synthase 2) (PE). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CTPS2 antibody	1. Olsen, J.V., et.al., Cell 127(3), 635-648 (2006).
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.



Western Blot (WB) of anti-CTPS2 antibody
Western blot analysis of CTPS2 Antibody (N-term) in Hela cell line lysates (35ug/lane). CTPS2 (arrow) was detected using the purified Pab.



Flow Cytometry (FC/FACS) of anti-CTPS2 antibody
CTPS2 Antibody (N-term) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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 #	Q9H6Q0; Q9NRF8
GenBank Nucleotide #	NM_001144002.1
NCBI Official Full Name	CTP synthase 2
NCBI Official Synonym Full Names	CTP synthase II
NCBI Official Symbol	CTPS2
NCBI Official Synonym Symbols	FLJ43358; MGC32997; DKFZp686C17207
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 synthetase 2; OTTHUMP00000022985; OTTHUMP00000022986; UTP-ammonia ligase; CTP synthetase type 2; UTP--ammonia ligase 2; CTP synthetase isoform; 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. Three alternatively spliced transcript variants encoding the same protein have been described for this gene. [provided by RefSeq]

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.** Low CTPS2 expression may be a rationally-based determinant of 5FU resistance.
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