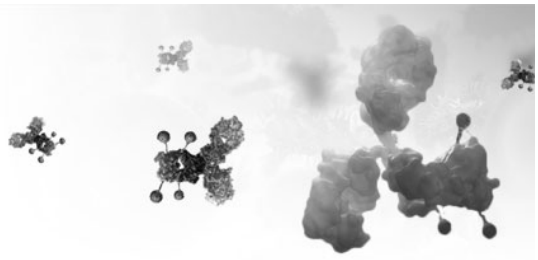

Anti-CTPS2 monoclonal antibody (DCABH-11161)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	A synthetic peptide of human CTPS2 is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Mouse, Rat, Human
Purification	Protein A
Conjugate	Unconjugated
Applications	FC, ICC/IF, IHC-P, WB
Size	100 µl
Buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA,
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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GENE INFORMATION

Gene Name	CTPS2 CTP synthase II [Homo sapiens]
Official Symbol	CTPS2
Synonyms	CTPS2; CTP synthase II; CTP synthase 2; CTP synthetase 2; UTP-ammonia ligase; CTP synthetase type 2; UTP--ammonia ligase 2; CTP synthetase isoform; cytidine 5-triphosphate synthetase 2; FLJ43358; MGC32997; DKFZp686C17207;
Entrez Gene ID	56474
Protein Refseq	NP_001137474
UniProt ID	A0A024RC00
Chromosome Location	Xp22
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, conserved biosystem; Pyrimidine ribonucleotide biosynthesis, UMP => UDP/UTP,CDP/CTP, organism-specific biosystem;
Function	ATP binding; CTP synthase activity; ligase activity; nucleotide binding;

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