SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-CTPS2 antibody

**Catalog Number: SL14101R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

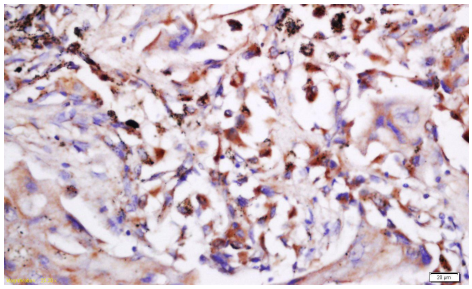
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|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | CTPS2 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human CTPS2: 151-250/586 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human(predicted:Mouse,Rat,Cow,Horse,Rabbit,Sheep) |
| **Predicted MW.:** | 66kDa |
| **Subcellular Location:** | cytoplasmic |
| **Background:** | 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]<br>**Function:** 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.<br>**Similarity:** Belongs to the CTP synthase family. |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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| | |
|---|---|
| | Contains 1 glutamine amidotransferase type-1 domain.<br>**Database links:**<br>**Entrez Gene:** 56474 Human<br>**Entrez Gene:** 767849 Cow<br>**Entrez Gene:** 55936 Mouse<br>**Entrez Gene:** 619580 Rat<br>Omim: 300380 Human<br>**SwissProt:** Q5F3Z1 Chicken<br>**SwissProt:** Q1RMS2 Cow<br>**SwissProt:** Q9NRF8 Human<br>**SwissProt:** P70303 Mouse<br>**SwissProt:** Q5U2N0 Rat<br>**Unigene:** 227049 Human<br>**Unigene:** 2065 Mouse<br>**Unigene:** 13683 Rat |

## [ VALIDATION IMAGES ]



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-CTPS2 Polyclonal Antibody, Unconjugated(SL14101R) 1:400, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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