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CTPS1 Recombinant Monoclonal Antibody

Product Code	CSB-RA548305A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P17812
Immunogen	A synthesized peptide derived from human CTPS1
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	This enzyme is involved in the de novo synthesis of CTP, a precursor of DNA, RNA and phospholipids. Catalyzes the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as a source of nitrogen. This enzyme and its product, CTP, play a crucial role in the proliferation of activated lymphocytes and therefore in immunity. {ECO:0000269 PubMed:16179339, ECO:0000269 PubMed:24870241}.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Metabolism; Signal transduction
Gene Names	CTPS1
Clone No.	13B6

Image



IHC image of CSB-RA548305A0HU diluted at 1:100 and staining in paraffin-embedded human salivary gland tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.

Description

CUSABIO meticulously produced the CTPS1 recombinant monoclonal antibody through a well-defined process. B cells were isolated from the spleen of an

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immunized animal, with a synthesized peptide derived from human CTPS1 serving as the immunogen. RNA was extracted from the isolated B cells and converted into cDNA through reverse transcription. The gene encoding the CTPS1 antibody was then amplified using a degenerate primer and integrated into a vector. This recombinant vector was transfected into host cells to facilitate the efficient expression of the CTPS1 recombinant monoclonal antibodies. These antibodies were subsequently harvested from the cell culture supernatant and purified using affinity chromatography. The CTPS1 recombinant monoclonal antibody is suitable for use in ELISA and IHC and can react with human CTPS1 protein.