SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CSTF2T antibody

Catalog Number: SL14090R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CSTF2T
Immunogen:	KLH conjugated synthetic peptide derived from human CSTF2T: 551-616/616
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 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Chicken, Dog, Pig, Horse, Rabbit)
Predicted MW.:	64kDa
Subcellular Location:	The nucleus
Background:	Polyadenylation of mRNA precursors is a two-step reaction that requires multiple protein factors. The first step, endonucleolytic cleavage of polyadenylation substrates, requires CstF (cleavage stimulation factor), a heterotrimer that is composed of three distinct subunits. CstF-64 contains an RNA binding domain and is responsible for the RNA binding activity of CstF. CstF-64 is expressed in all somatic cells and in pre- and postmeiotic, but not meiotic, germ cells. However, a large variant of CstF-64, called t CstF-64, is abundantly expressed in meiotic and postmeiotic cells in the testis and to a lesser extent in the brain, and promotes the germ cell pattern of polyadenylation. The gene encoding CstF-64 (designated CSTF2) maps to the X chromosome, whereas t CstF-64 is encoded by an autosomal gene.

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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	The increase in CstF-64 concentration during B cell activation switches IgM heavy chain mRNA expression from membrane-bound to secreted forms, suggesting that CstF-64 plays a key role in regulating IgM heavy chain expression during B cell differentiation. **Function:** May play a significant role in AAUAAA-independent mRNA polyadenylation in germ cells. Directly involved in the binding to pre-mRNAs. **Subcellular Location:** Nucleus. **Post-translational modifications:** Phosphorylated upon DNA damage, probably by ATM or ATR. **Similarity:** Contains 1 RRM (RNA recognition motif) domain. **Database links:** **Entrez Gene:** 23283 Human **Entrez Gene:** 83410 Mouse **Entrez Gene:** 309338 Rat Omim: 611968 Human **SwissProt:** Q9H0L4 Human **SwissProt:** Q8C7E9 Mouse **Unigene:** 591358 Human **Unigene:** 482352 Mouse

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