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CSTF2T Rabbit pAb

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Catalog # AP55416

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H0L4
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64437
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CSTF2T
Epitope Specificity	551-616/616
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. 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.

Additional Information

Gene ID	23283
Other Names	Cleavage stimulation factor subunit 2 tau variant, CF-1 64 kDa subunit tau variant, Cleavage stimulation factor 64 kDa subunit tau variant, CSTF 64 kDa subunit tau variant, TauCstF-64, CSTF2T, KIAA0689
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CSTF2T
Synonyms	KIAA0689
Function	May play a significant role in AAUAAA-independent mRNA polyadenylation in germ cells. Directly involved in the binding to pre- mRNAs (By similarity).
Cellular Location	Nucleus.

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