

# Recombinant Mus musculus Transcriptional repressor CTCFL



Catalog No: #AP72516

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Package Size: #AP72516-1 20ug #AP72516-2 100ug #AP72516-3 1mg

## Description

Product Name	Recombinant Mus musculus Transcriptional repressor CTCFL
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-636aaSequence Info:Full Length
Other Names	Brother of the regulator of imprinted sites CCCTC-binding factor CTCF paralog CTCF-like protein
Accession No.	A2APF3
Uniprot	A2APF3
GeneID	664799;
Calculated MW	75.1 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MAAAEVPVPSGYFTQIKEQKLKPGDLEEEKEEDGVQRVEAQEGVVKEVEAEENSCLLLEAPVESDRRILTLQ TVHLESQDVHLQGLGWLSVPHSEELSGTVPEAEGILQLPSVLWLDPEPQLSLQHCVTVSIPEELYPPEELQRIH FHLLRENVLMAEENPELTPDLDESTALKKPEEDEKDLPPQGETDKREERLLLLEMKPKEGKDDEIVLTISHLS LEEQQDPPAANQTSVPGAKAAKPKRRRQTGKPKQSFQCDTCPFTSSKLSSTFNRIHIHSNERPHLCHLCLKAF RTVTLLRNHVNTHTGTRPHKCRDCDMAFVTSSELVRRHRYKHTYEKPKCSLCKYASVEASKMKRHIRSHTG ERPFQCCQAYASRDSYKLRHMRTHSGEKPYECPCHVRFTQSGTMKIHIAQKHGENVPKYECPHCATIAR KSDLRVHLRNLHSQSPEEMKCRYCPAGFHRYALIQHQRTHKNEKKFKCKQCDYACKQERCLKAHMRMHTG EKPFSLACNKHFRQQLLTVHLRKYHDPNFVNLHLCLKCDKRFSRWSNLQRHRKCDPEHETLAPNKDRR PVTRTQASEGEAGHKEGEPQCPGEQALGHQGEAAGSQSPDHGLTCEIIFNMMDK
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Testis-specific DNA binding protein responsible for insulator function, nuclear architecture and transcriptional control, which probably acts by recruiting epigenetic chromatin modifiers. Plays a key role in gene imprinting in male germline, by participating in the establishment of differential methylation at the IGF2,H19 imprinted control region (ICR). Directly binds the unmethylated H19 ICR and recruits the PRMT7 methyltransferase, leading to methylate histone H4 'Arg-3' to form H4R3me2. This probably leads to recruit de novo DNA methyltransferases at these sites. Seems to act as tumor suppressor. In association with DNMT1 and DNMT3B, involved in activation of BAG1 gene expression by binding to its promoter. Required for

dimethylation of H3 lysine 4 (H3K4me2) of MYC and BRCA1 promoters.

## References

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"The testis-specific factor CTCFL cooperates with the protein methyltransferase PRMT7 in H19 imprinting control region methylation."  
Jelinic P., Stehle J.-C., Shaw P. PLoS Biol. 4:E355-E355(2006) Research Topic:Others

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Note: This product is for in vitro research use only