

Recombinant Mouse Transcriptional repressor
CTCFL(Ctcf)

Catalog No: #AP70204

Package Size: #AP70204-1 20ug #AP70204-2 100ug #AP70204-3 1mg



Description

Product Name	Recombinant Mouse Transcriptional repressor CTCFL(Ctcf)
Host Species	E.coli
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 sitesCCCTC-binding factorCTCF paralogCTCF-like protein
Accession No.	A2APF3
Calculated MW	89.1 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MAAAEVPVPSGYFTQIKEQKLKPGDLEEEKEEDGVQRVEAQEGVVKEVEAENSCLLLEAPVESDRRILTLQ TVHLESQDVHLQGLGWLSVPHSEELSGTVPEAEGILQLPSVLWLDPEPQLSLQHCVTVSIPPEELYPPEELQRIH FHLLRENVLMAEENPELTPDLDESTALKKPEEDEKQDQLPPQGETDKREERLLLLEMKPKEGKDDEIVLTISHLS LEEQQDPPAANQTSVPGAKAAKPKRRRQTGKPKQSFQCDTCPFTSSKLSTFNRHIKHSNERPHLCHLCLKAF RTVTLLRNHVNTHTGTRPHKCRDCDMAFVTSGLVRHRRYKHTYEKPFKCSLCKYASVEASKMKRHIRSHTG ERPFQCCQCAYSRDSYKLRHMRTHSGEKPYESPTCHVRFTQSGTMKIHIAQKHGENVPKYECPHCATIAR KSDLRVHLRNLHSQSPEEMKCRYCPAGFHERYALIQHQRTHKNEKKFKCKQCDYACKQERCLKAHMRMHTG EKPFSCCLACNKHFRQKQLLTVHLRKYHDPNFVNLHLCLKCDKRFSRWSNLQRHRKKCDPEHETLAPNKDRR 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 H4R3sme2. This probably leads to recruit de novo DNA methyltransferases at these sites. Ses 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

Lineage-specific biology revealed by a finished genome assembly of the mouse.Church D.M., Goodstadt L., Hillier L.W., Zody M.C., Goldstein S., She X., Bult C.J., Agarwala R., Cherry J.L., DiCuccio M., Hlavina W., Kapustin Y., Meric P., Maglott D., Birtle Z., Marques A.C., Graves T., Zhou S. , Teague B., Potamouis K., Churas C., Place M., Herschleb J., Runnheim R., Forrest D., Amos-Landgraf J., Schwartz D.C., Cheng Z., Lindblad-Toh K.,

Note: This product is for in vitro research use only and is not intended for use in humans or animals.