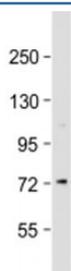


CTCFL Antibody (F53829)

Catalog No.	Formulation	Size
F53829-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q8NI51
Applications	Western Blot : 1:1000-2000
Limitations	This CTCFL antibody is available for research use only.



Western blot testing of human Jurkat cell lysate with CTCFL antibody at 1:2000.
Predicted molecular weight: 76 kDa.

Description

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 (By similarity). 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.

Application Notes

Titration of the CTCFL antibody may be required due to differences in protocols and substrate sensitivity.

Immunogen

A portion of amino acids 617-650 from the human protein was used as the immunogen for the CTCFL antibody.

Storage

Aliquot the CTCFL antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.