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CTCFL Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21914b

Product Information

Application	WB, E
Primary Accession	Q8NI51
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54304
Calculated MW	75747

Additional Information

Gene ID	140690
Other Names	Transcriptional repressor CTCFL, Brother of the regulator of imprinted sites, CCCTC-binding factor, CTCF paralog, CTCF-like protein, Cancer/testis antigen 27, CT27, Zinc finger protein CTCF-T, CTCFL, BORIS
Target/Specificity	This CTCFL antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 617-650 amino acids from human CTCFL.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CTCFL Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CTCFL
Synonyms	BORIS
Function	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 (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.

Cellular Location Cytoplasm. Nucleus.

Tissue Location Testis specific. Specifically expressed in primary spermatocytes

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 (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.

References

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Jelinic P.,et al.PLoS Biol. 4:E355-E355(2006).
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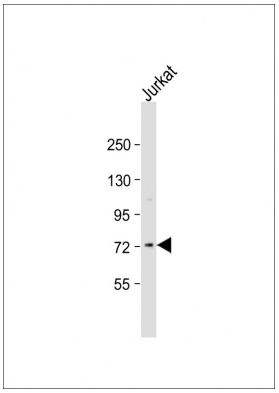
Images



Anti-CTCFL Antibody (C-Term) at 1:2000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 76 kDa Blocking/Dilution buffer: 5% NFDM/TBST.