

**CTCFL Blocking Peptide (C-Term)**

Synthetic peptide

Catalog # BP21914b

**Specification**

---

**CTCFL Blocking Peptide (C-Term) - Product Information**

Primary Accession

[Q8NI51](#)**CTCFL Blocking Peptide (C-Term) - 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**

The synthetic peptide sequence is selected from aa 637-650 of HUMAN CTCFL

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CTCFL Blocking Peptide (C-Term) - 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

**CTCFL Blocking Peptide (C-Term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**CTCFL Blocking Peptide (C-Term) - Images****CTCFL Blocking Peptide (C-Term) - 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 (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.

**CTCFL Blocking Peptide (C-Term) - References**

Loukinov D.I., et al. Proc. Natl. Acad. Sci. U.S.A. 99:6806-6811(2002).  
Jelinic P., et al. PLoS Biol. 4:E355-E355(2006).  
Renaud S., et al. Nucleic Acids Res. 35:7372-7388(2007).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Deloukas P., et al. Nature 414:865-871(2001).