



Rabbit Anti-CT27 antibody

SL5962R

Product Name:	CT27
Chinese Name:	Tumour/睾丸抗原27抗体(高迁移率族蛋白)
Alias:	BORIS like protein; Brother of the regulator of imprinted sites; Cancer/testis antigen 27; CCCTC binding factor (zinc finger protein) like; CCCTC-binding factor; CT27; CTCF paralog; CTCF T; CTCF-like protein; CTCFL; CTCFL_HUMAN; HMG 1L1; HMGB1L1; Putative high mobility group protein 1 like 1; Putative high mobility group protein B1 like 1; Transcriptional repressor CTCFL; Zinc finger protein CTCF-T.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	72kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human BORIS/CT27:351-450/663
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

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.

Subunit:

Interacts with histones, PRMT7 and SETD1A. Interacts (via N-terminus) with BAG6/BAT3.

Subcellular Location:

Cytoplasm. Nucleus.

Tissue Specificity:

Testis specific. Specifically expressed in primary spermatocytes.

Similarity:

Belongs to the CTCF zinc-finger protein family.
Contains 11 C2H2-type zinc fingers.

SWISS:

Q8NI51

Gene ID:

140690

Database links:

[Entrez Gene: 140690](#)Human

[Entrez Gene: 664799](#)Mouse

[Entrez Gene: 100360757](#)Rat

[Omid: 607022](#)Human

[SwissProt: Q8NI51](#)Human

[SwissProt: A2APF3](#)Mouse

[Unigene: 131543](#)Human

[Unigene: 389396](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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