

For Research Use Only

# BORIS Monoclonal antibody

Catalog Number: 60079-1-Ig **1 Publications**



## Basic Information

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|--|--|--|
| <b>Catalog Number:</b><br>60079-1-Ig   | <b>GenBank Accession Number:</b><br>BC130486                         | <b>Purification Method:</b><br>Protein A purification                  |
| <b>Size:</b><br>150ul , Concentration: 713 ug/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>140690                                      | <b>CloneNo.:</b><br>2B12E2   |
| <b>Source:</b><br>Mouse  | <b>UNIPROT ID:</b><br>Q8NI51   | <b>Recommended Dilutions:</b><br>WB 1:500-1:2000<br>IF/ICC 1:200-1:800 |
| <b>Isotype:</b><br>IgG1  | <b>Full Name:</b><br>CCCTC-binding factor (zinc finger protein)-like |  |
| <b>Immunogen Catalog Number:</b><br>AG1003   | <b>Calculated MW:</b><br>82 kDa, 75 kDa                              |  |
|  | <b>Observed MW:</b><br>75 kDa  |  |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>WB, IF/ICC, ELISA | <b>Positive Controls:</b>               |
| <b>Cited Applications:</b><br>WB                 | <b>WB :</b> HeLa cells, SMMC-7721 cells |
| <b>Species Specificity:</b><br>human, mouse      | <b>IF/ICC :</b> HeLa cells,             |
| <b>Cited Species:</b><br>human                   |   |

## Background Information

CTCF, also named BORIS (for brother of the regulator of imprinted sites) is a paralogue of the 11 zinc-finger transcription factor, CTCF. It is predominantly expressed in spermatocytes in the testis, also can be found in tumors and cancer cell lines. It mainly participates in insulator function, nuclear architecture and transcriptional control, which probably acts by recruiting epigenetic chromatin modifiers. It has 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.

## Notable Publications

| Author   | Pubmed ID | Journal  | Application |
|----------|-----------|----------|-------------|
| Kui Xiao | 34714841  | PLoS One | WB          |

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

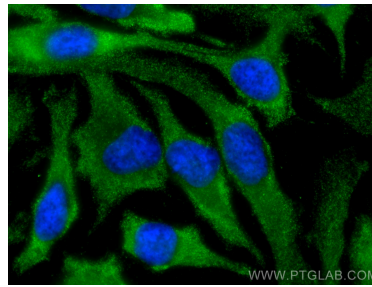
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## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 60079-1-Ig (BORIS antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using BORIS antibody (60079-1-Ig, Clone: 2B12E2 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).