

# CTCF Rabbit mAb

Catalog No.: A19588 **Recombinant** **8 Publications**

## Basic Information

### Observed MW

140 kDa

### Calculated MW

83 kDa

### Category

Primary antibody

### Applications

WB,IF/ICC,IP,ELISA,ChIP,ChIP-seq,CUT&Tag

### Cross-Reactivity

Human, Rat

### CloneNo number

ARC0067

## Recommended Dilutions

**WB** 1:1000 - 1:6000

**IF/ICC** 1:2000 - 1:3000

**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on  
your specific assay  
requirements.

**ChIP** 5µg antibody for  
10µg-15µg of Chromatin

**ChIP-seq** 1:50 - 1:100

**CUT&Tag** 10<sup>5</sup> cells /2 µg

## Background

This gene is a member of the BORIS + CTCF gene family and encodes a transcriptional regulator protein with 11 highly conserved zinc finger (ZF) domains. This nuclear protein is able to use different combinations of the ZF domains to bind different DNA target sequences and proteins. Depending upon the context of the site, the protein can bind a histone acetyltransferase (HAT)-containing complex and function as a transcriptional activator or bind a histone deacetylase (HDAC)-containing complex and function as a transcriptional repressor. If the protein is bound to a transcriptional insulator element, it can block communication between enhancers and upstream promoters, thereby regulating imprinted expression. Mutations in this gene have been associated with invasive breast cancers, prostate cancers, and Wilms' tumors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

## Immunogen Information

### Gene ID

10664

### Swiss Prot

P49711

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

MRD21; FAP108; CFAP108; CTCF

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3.

## Contact

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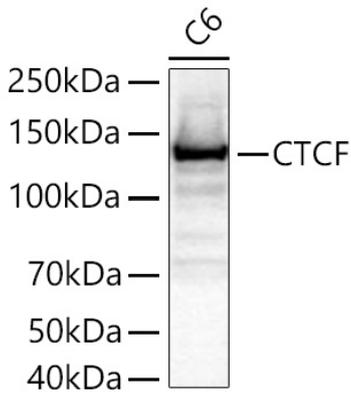
 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

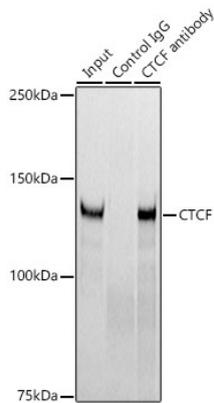
 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

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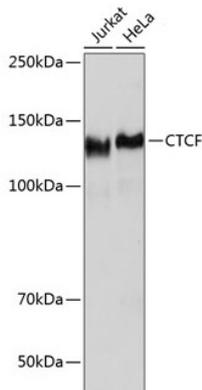
## Validation Data



Western blot analysis of lysates from C6 cells using CTCF Rabbit mAb (A19588) at 1:6000 dilution incubated at room temperature for 1.5 hours.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 1 s.

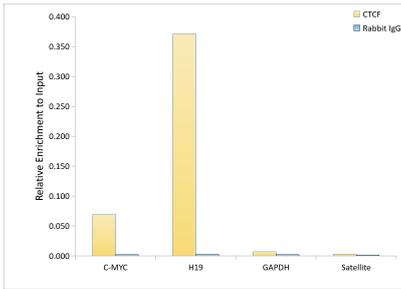


Immunoprecipitation analysis of 300 µg extracts of 293T cells using 3 µg CTCF antibody (A19588).  
Western blot was performed from the immunoprecipitate using CTCF antibody (A19588) at a dilution of 1:1000.

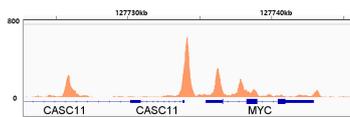


Western blot analysis of various lysates using CTCF Rabbit mAb (A19588) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 30s.

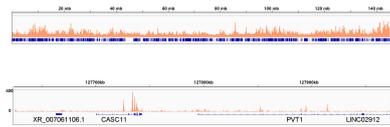
## Validation Data



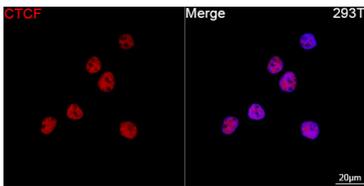
Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from HeLa, using 5 µg of CTCF Rabbit mAb (A19588) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



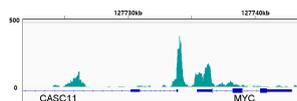
Chromatin immunoprecipitation was performed with 25 µg of cross-linked chromatin from 293T cells using 5 µg of CTCF Rabbit mAb (A19588). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of CTCF in the representative genomic region surrounding MYC gene.



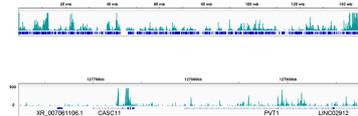
Chromatin immunoprecipitation was performed with 25 µg of cross-linked chromatin from 293T cells using 5 µg of CTCF Rabbit mAb (A19588). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of CTCF across chromosome 8 (upper panel) and the genomic region encompassing MYC, a representative gene enriched in CTCF (lower panel).



Confocal imaging of 293T cells using CTCF Rabbit mAb (A19588, dilution 1:2000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina (RK20265) from 10<sup>5</sup> K562 cells with 2 µg of CTCF Rabbit mAb (A19588), followed by incubation with Goat Anti-Rabbit IgG(H+L)(AS070). The results denote the enrichment pattern of CTCF around MYC gene.



CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina (RK20265) from 10<sup>5</sup> K562 cells with 2 µg of CTCF Rabbit mAb (A19588), followed by incubation with Goat Anti-Rabbit IgG(H+L)(AS070). The CUT&Tag results denote the enrichment pattern of CTCF across chromosome 8 (upper panel) and the genomic region encompassing MYC, a representative gene enriched in CTCF (lower panel).