

# CTCF Rabbit mAb

Catalog No.: A19588

Recombinant

5 Publications

## Basic Information

**Observed MW**

140kDa/

**Calculated MW**

83kDa

**Category**

Primary antibody

**Applications**

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

**Cross-Reactivity**

Human, Mouse, Rat

**CloneNo number**

ARC0067

## 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.

## Recommended Dilutions

**WB** 1:1000 - 1:2000**IF/ICC** 1:200 - 1:800**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** 3µg antibody for  
10µg-15µg of Chromatin**ChIP-seq** 1:50 - 1:100**CUT&Tag** 10<sup>5</sup> cells /2 µg

## 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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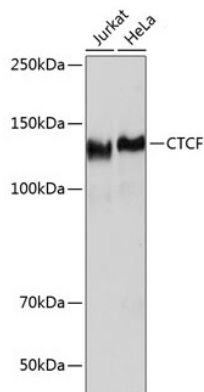
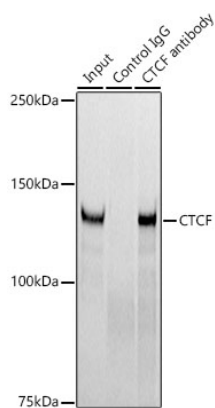
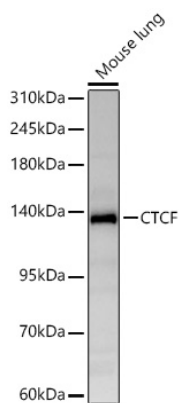
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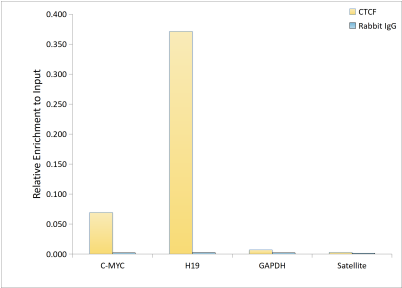
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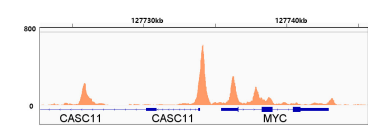
## Validation Data



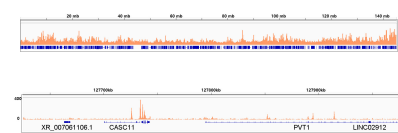
Validation Data



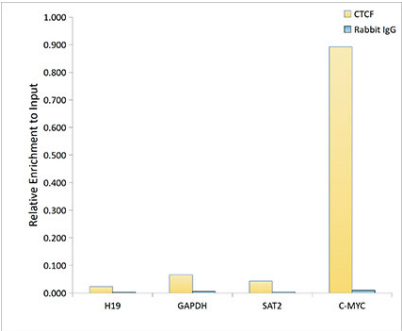
Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from HeLa, using 5 µg of CTCF Rabbit mAb (A19588) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio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

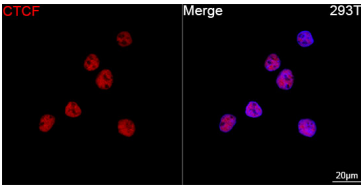


Chromatin immunoprecipitation was performed with 25 µg of cross-linked chromatin from 293T cells using 5 µg of CTCF Rabbit mAb (A19588). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of CTCF across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

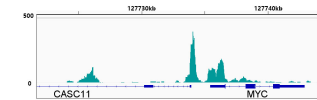


Chromatin immunoprecipitation analysis of extracts of 293T cells, using CTCF antibody (A19588) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

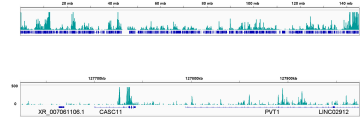
# Validation Data



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 2ug 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).