# **CTCF Rabbit pAb**

Catalog No.: A1133 8 Publications



### **Basic Information**

#### **Observed MW**

130 kDa

#### **Calculated MW**

83kDa

#### Category

Primary antibody

#### **Applications**

WB,IP,IF/ICC,IHC-P,ChIP,ELISA

#### **Cross-Reactivity**

Human, Mouse, Rat

### **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** 1:500 - 1:2000

IP 0.5μg-4μg antibody for 200μg-400μg extracts of

whole cells

**IF/ICC** 1:50 - 1:200

**IHC-P** 1:50 - 1:200

**ChIP** 5μg antibody for

10μg-15μg of Chromatin

**ELISA** Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

### Immunogen Information

**Gene ID**10664

Swiss Prot
P49711

#### **Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

#### Synonyms

MRD21; FAP108; CFAP108; CTCF

#### **Product Information**

SourceIsotypePurificationRabbitIgGAffinity purification

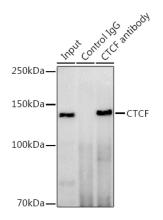
#### Storage

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

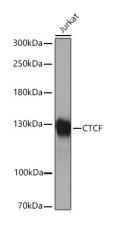
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Contact

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Immunoprecipitation analysis of 300 µg extracts of HeLa cells using 3 µg CTCF antibody (A1133). Western blot was performed from the immunoprecipitate using CTCF antibody (A1133) at a dilution of 1:500.



Western blot analysis of lysates from Jurkat cells using CTCF Rabbit pAb (A1133) at 1:1000 dilution incubated overnight at  $4^{\circ}$ C.

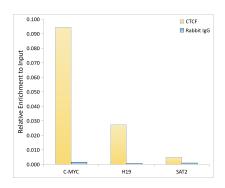
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 μg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

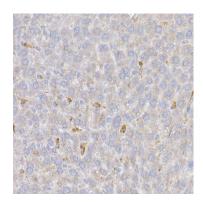
Detection: ECL Basic Kit (RM00020).

Exposure time: 10 s.

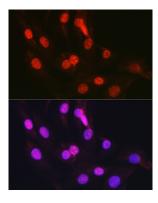


Chromatin immunoprecipitation analysis of extracts of HeLa cells, using CTCF antibody (A1133) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

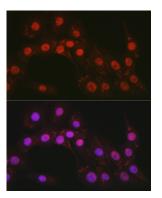
### **Validation Data**



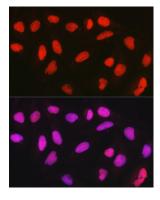
Immunohistochemistry analysis of paraffinembedded Human colon carcinoma using CTCF Rabbit pAb (A1133) at dilution of 1:50 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of NIH/3T3 cells using CTCF Rabbit pAb (A1133) at dilution of 1:50 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using CTCF Rabbit pAb (A1133) at dilution of 1:50 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U2OS cells using CTCF Rabbit pAb (A1133) at dilution of 1:50 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.