

Datasheet for ABIN968757  
**anti-CTCF antibody (AA 184-290)**



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## Overview

Quantity:	50 µg
Target:	CTCF
Binding Specificity:	AA 184-290
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CTCF antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

## Product Details

Immunogen:	Human CTCF aa. 184-290
Clone:	48-CTCF
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Please refer to us for technical protocols.</li><li>3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li><li>4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li></ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

## Product Details

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chromatography.

## Target Details

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Target: CTCF

Alternative Name: CTCF ([CTCF Products](#))

Background: The family of nucleic acid-binding C2H2 type zinc finger transcription factors is divided into two classes. One class consists of small proteins (Gli1, Krox-20, WT1, Egr-1, and Sp1) with conserved zinc finger clusters of 3 to 5 units, while the other class (ZNF91, ZNF74, ZFP37, CTCF) can contain more than 10 zinc finger clusters. CTCF is a ubiquitously expressed, highly conserved transcription factor that contains 10 C2H2- and 1 C2H-type zinc-finger motifs. CTCF binds to and represses transcription at the promoter-proximal regions of c-myc oncogenes, while CTCF can bind to and activate transcription at the promoter for amyloid beta. Another mechanism of CTCF-mediated repression may include binding to insulator regions between enhancers and promoters resulting in enhancer blocking. In addition, CTCF gene may be a candidate tumor suppressor gene, since it localizes to a narrow cancer-associated chromosome region, and has been shown to have tumor-specific rearrangements in breast cancer patients. Thus, CTCF transcriptional regulation may be important for cell cycle progression, differentiation, apoptosis, and tumorigenesis. This antibody is routinely tested by western blot analysis.

Molecular Weight: 140 kDa

## Application Details

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Comment: Related Products: [ABIN968537](#), [ABIN967389](#)

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 250 µg/mL

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

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Storage: -20 °C

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Storage Comment: Store undiluted at -20° C.

## Publications

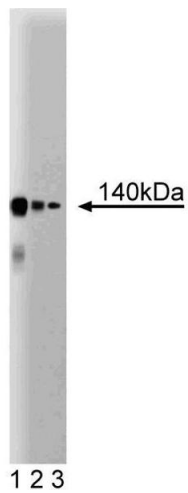
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Product cited in: Bell, West, Felsenfeld: "The protein CTCF is required for the enhancer blocking activity of vertebrate insulators." in: **Cell**, Vol. 98, Issue 3, pp. 387-96, (1999) ([PubMed](#)).

Filippova, Lindblom, Meincke, Klenova, Neiman, Collins, Doggett, Lobanenkov: "A widely expressed transcription factor with multiple DNA sequence specificity, CTCF, is localized at chromosome segment 16q22.1 within one of the smallest regions of overlap for common deletions in breast and prostate cancers." in: **Genes, chromosomes & cancer**, Vol. 22, Issue 1, pp. 26-36, (1998) ([PubMed](#)).

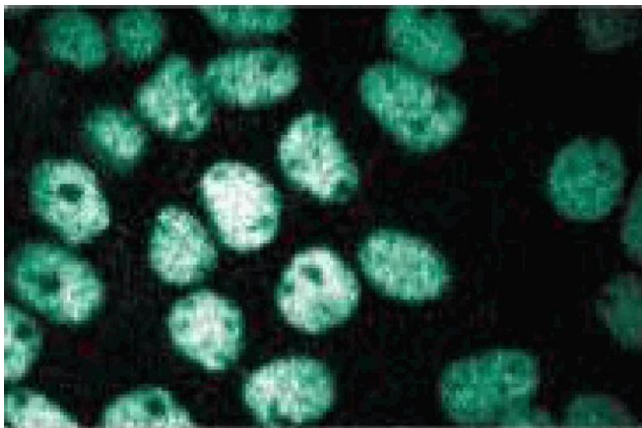
Filippova, Fagerlie, Klenova, Myers, Dehner, Goodwin, Neiman, Collins, Lobanenkov: "An exceptionally conserved transcriptional repressor, CTCF, employs different combinations of zinc fingers to bind diverged promoter sequences of avian and mammalian c-myc oncogenes." in: **Molecular and cellular biology**, Vol. 16, Issue 6, pp. 2802-13, (1996) ([PubMed](#)).

Klenova, Nicolas, Paterson, Carne, Heath, Goodwin, Neiman, Lobanenkov: "CTCF, a conserved nuclear factor required for optimal transcriptional activity of the chicken c-myc gene, is an 11-Zn-finger protein differentially expressed in multiple forms." in: **Molecular and cellular biology**, Vol. 13, Issue 12, pp. 7612-24, (1994) ([PubMed](#)).



### Western Blotting

**Image 1.** Western blot analysis of CTCF on a Jurkat cell lysate (Human T-cell leukemia, ATCC TIB-152). Lane 1, 1:500, lane 2: 1: 1000, lane 3: 1: 2000 dilution of the mouse anti-CTCF antibody.



### Immunofluorescence

**Image 2.** Immunofluorescence staining of A431 cells (Human epithelial carcinoma, ATCC CRL-1555).