

CTCF

Reactivity: Human Mouse

Tested applications: WB

Recommended Dilution: WB 1:200 - 1:2000

Calculated MW: 83kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human CTCF

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

f

Synonym:

CTCF;

Catalog #: A0171

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 10664

Isotype: IgG

Swiss Prot: P49711

Purity: Affinity purification

For research use only.

Background:

Transcriptional insulators are DNA elements that set boundaries on the actions of enhancer and silencer elements and thereby organize the eukaryotic genome into regulatory domains. All vertebrate insulators appear to use the versatile CTCF protein. CTCF uses various combinations of its 11 zinc fingers to recognize a variety of unrelated DNA sequences. Once bound to DNA, CTCF can function as a transcriptional insulator, repressor, or activator, depending on the context of the binding site [PMID:12787766,15454938]. In vertebrates, this 11 zinc-finger protein is shown to be crucial in processes of epigenetic imprinting, X chromosome inactivation, and associated with various complex human diseases including cancer and diabetes [PMID:23139640].

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