

Recombinant Human CTCF

Cat. No. CTCF-26436TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 1-100 of Human CTCF protein with a proprietary tag; predicted mwt: 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	1-100 aa
Description	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.
Molecular Weight	36.630kDa
Tissue specificity	Ubiquitous. Absent in primary spermatocytes.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MEGDAVEAIVEESETFIK GKERTYQRRREGGQEEDACHLPQNQTDGGEVVQDVN SSVQMVMMEQLDPTLLQMKTEVMEGTVAPEAEAAVDDTQIITLQV
Sequence Similarities	Belongs to the CTCF zinc-finger protein family.Contains 11 C2H2-type zinc fingers.

GENE INFORMATION

Gene Name	CTCF CCCTC-binding factor (zinc finger protein) [Homo sapiens]
Official Symbol	CTCF
Synonyms	CTCF; CCCTC-binding factor (zinc finger protein); transcriptional repressor CTCF; 11 zinc finger transcriptional repressor;
Gene ID	10664
mRNA Refseq	NM_001191022
Protein Refseq	NP_001177951
MIM	604167

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Uniprot ID	P49711
Chromosome Location	16q21-q22.3
Pathway	SIDS Susceptibility Pathways, organism-specific biosystem; TGF-beta Receptor Signaling Pathway, organism-specific biosystem;
Function	chromatin insulator sequence binding; metal ion binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription corepressor activity;

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