

Recombinant Full Length Human CTCF Protein, GST-tagged

Cat. No. CTCF-730HF Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full length Human CTCF(1 a.a. - 727 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.

Species Human

Source In Vitro Cell Free System

ProteinLength 727 amino acids

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.

Form 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Molecular Mass 105.6 kDa

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AA Sequence

MEGDAVEAIV EESETFIKGK ERKTYQRRRE GGQEEDACHL PQNQTDGGEV
VQDVNSSVQM VMMEQLDPTL LQMKTEVMEG TVAPEAEEAAV DDTQIITLQV
VNMEEQPINI GELQLVQVPV PVTVPVATTS VEELQGAYEN EVSKEGLAES
EPMICHTLPL PEGFQVVKVG ANGEVETLEQ GELPPQEDPS WQKDPDYQPP
AKKTKKTKKS KLRYTEEGKD VDVSVDYDFEE EQQEGLLSEV NAEKVVGNMK
PPKPTKIKKK GVKKTFQCEL CSYTCPRRSN LDRHMKSHTD ERPHKCHLCG
RAFRTVTLR NHLNHTGTGTR PHKCPDCDMA FVTSGELVRH RRYKHTHEKP
FKCSMCDYAS VEVSKLKRHI RSHTGERPFQ CSLCSYASRD TYKLRHMRT
HSGEKPYECY ICHARFTQSG TMKMHLQKH TENVAKFHCP HCDTVIARKS
DLGVHLRKQH SYIEQGKKCR YCDAVFHERY ALIQHQKSHK NEKRFKCDQC
DYACRQERHM IMHKRTHTGE KPYACSHCDK TFRQKQLLDM HFKRYHDPNF
VPAAFVCSKC GKTFTRRNTM ARHADNCAGP DGVEGENGGE TKKSKRGRKR
KMRSKKEDSS DSENAEPDL DNEDEEPAV EIEPEPEPQP VTPAPPPAKK
RRGRPPGRTN QPKQNQPTAI IQVEDQNTGA IENIIVEVKK EPDAEPAEGE
EEEAQPAATD APNGDLTPEM ILSMMDR

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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; CTCFL paralog; 11-zinc finger protein

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Gene ID	10664
mRNA Refseq	NM_001191022
Protein Refseq	NP_001177951
MIM	604167
UniProt ID	P49711

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