

Recombinant Human CTCF protein, GST-tagged

Cat. No. CTCF-16H **Lot. No.** (See product label)

SPECIFICATION

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

MEGDAVEAIVEESETFIK GKERTYQRRREGGQEEDACHLPQNQTDGGEVVQDVN
 SSVQMVMMEQLDPTLLQMKTEVMEGTVAPEAEAAVDDTQIITLQVVMEEQPINIGE
 LQLVQVPVPVTPVATTSSVEELQGAYENEVSKEGLAESEPMICHTLPLPEGFQVVKV
 GANGEVETLEQGELPPQEDPSWQKDPDYQPPAKKTKKTKKSKLRYTEEGKDVDVS
 VYDFEEEEQEGLLSEVNAEKVVGNMKPPKPTKIKKKGVKKTFFQCELCSYTCPRRSN
 LDRHMKSHTERPHKCHLCGRAFRVTLLRNHLNTHGTGRPHKCPDCDMAFVTSG
 ELVRHRRYKHTHEKPFKCSMCDYASVEVSKLKRHIRSHTGERPFQCSLCSYASRDT
 YKLKRHMRTSHSGEKPYECYICHARFTQSGTMKMHILQKHTENVAKFHCPHCDTVIA
 RKSDLGVHLRKQHSYIEQGKKCRYCDAVFHERYALIQHQKSHKNEKRFKCDQCDYA
 CRQERHMIMHKRTHTGEKPYACSHCDKTRQKQLLDMHFKRYHDPNFVPAAFVCS
 KCGKTFTRRNTMARHADNCAGPDGVEGENGGETKSKRGRKRKMRSKKEDSSDS
 ENAEPDLDDNEDEEEPAVEIEPEPEPQPVTPAPPPAKKRRGRPPGRTNQPKQNQPT
 AIIQVEDQNTGAIENIIVEVKKEPDAEPAEGEEEEEAQPAATDAPNGDLTPEMILSMMD
 R

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

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

