



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Datasheet

### CTCF (Human) Recombinant Protein (P01)

**Catalog Number:** H00010664-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human CTCF full-length ORF (AAH14267, 1 a.a. - 727 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MEGDAVEAIVEESETFIKGERKTYQRRREGGQEEDA  
CHLPQNQTDGGEVVQDVNSSVQVMMEQLDPTLLQ  
MKTEVMEGTVAPEAAVDDTQIITLQVVMEEQPINI  
GELQLVQVPVPTVPVATTSVEELQGAYENEVSKEGL  
AESEPMICHTLPLPEGFQVVKVGANGEVETLEQGELP  
PQEDPSWQKDPDYQPPAKKTKKTKSKLRYTEEGKD  
VDVSVYDFEEEQEGLLSEVNAEKVVGNMKPPKPTKI  
KKKGKVKTFQCELCSYTCPRRSNLDHRHMSHTDERP  
HKCHLCGRAFRVTLLRNHLNTHGTGRPHKCPDCDM  
AFVTSGELVRHRRYKHTHEKPFKCSMCDYASVEVSKL  
KRHIRSHTGERPFQCSLCSYASRDYTKLRHMRTHSG  
EKPYECYICHARFTQSGTMKMHILQKHTENVAKFHCP  
HCDTVIARKSDLGVLHRKQHSYIEQGKKCRYCDAVFH  
ERYALIQHQKSHKNEKRFKCDQCDYACRQERHMIMH  
KRTHTGEKPYACSHCDKTFRQKQLDMHFHCRYHDPN  
FVPAAFVCSKCGKTFTRNTMARHADNCAGPDGVEG  
ENGGETKSKRGRKRKMRSKKEDSSDSENAEPDLDD  
NEDEEEPAVEIEPEPEPQVTPAPPPAKKRRGRPPGR  
TNQPKQNQPTAIQVEDQNTGAENIIVEVKKEPDAEPA  
EGEEEEQAATDAPNGDLTPMILSMMDR

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 105.6

**Interspecies Antigen Sequence:** Mouse (97); Rat (97)

**Applications:** AP, Array, ELISA, WB-Re

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 10664

**Gene Symbol:** CTCF

**Gene Alias:** -

**Gene Summary:** 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. [provided by RefSeq]

**References:**

1. Friedreich Ataxia Patient Tissues Exhibit Increased 5-Hydroxymethylcytosine Modification and Decreased CTCF Binding at the FXN Locus. Al-Mahdawi S, Sandi C, Mouro Pinto R, Pook MA PLoS One. 2013 Sep 4;8(9):e74956. doi: 10.1371/journal.pone.0074956.
2. CTCF-promoted RNA polymerase II pausing links DNA methylation to splicing. Shukla S, Kavak E, Gregory M, Imashimizu M, Shutinoski B, Kashlev M, Oberdoerffer P, Sandberg R, Oberdoerffer S. Nature. 2011 Oct 2. doi: 10.1038/nature10442.
3. CTCF Regulates Allelic Expression of Igf2 by Orchestrating a Promoter-Polycomb Repressive Complex 2 Intrachromosomal Loop. Li T, Hu JF, Qiu X, Ling J, Chen H, Wang S, Hou A, Vu TH, Hoffman AR. Mol Cell Biol. 2008 Oct;28(20):6473-82. Epub 2008 Jul 28.