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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
CHLPQNQTDGGEVVDVNSSVQMVMMEQLDPTLLQ
MKTEVMEGTVAPEAAVDDTQIITLQVVMEEQPINI
GELQLVQVPVPTVPVATTSVEELQGAYENEVSKEGL
AESEPMICHTLPLPEGFQVVKVGANGEVETLEQGELP
PQEDPSWQKDPDYQPPAKKTKKTKKSKLRYTEEGKD
VDVSVYDFEEQQEGLLSEVNAEKVVGNMKPPKPTKI
KKKGVKKTFQCELCSYTCPRRSNDRHMKSHTERP
HKCHLCGRAFRVTLLRNHLNTHGTRPHKCPDCDM
AFVTSGELVRHRRYKHTHEKPFKCSMCDYASVEVSKL
KRHIRSHTGERPFQCSLCSYASRDYKLRHMRTHSG
EKPYECYICARFTQSGTMKMHILQKHTENVAKFHCP
HCDTVIARKSDLGVHLRKQHSYIEQGKKCRYCDAVFH
ERYALIQHQKSHKNEKRFKCDQCDYACRQERHMIMH
KRTHTGEKPYACSHCDKTFRQKQLDMHFKRYHDPN
FVPAAFVCSKCGKTFTRRNTMARHADNCAGPDGVEG
ENGGETKKSkrGRKRKMRSKKEDSSSENAEPDLD
NEDEEPAVEIEPEPEPQPVTAPPPAKKRRGRPPGR
TNQPKQNQPTAIQVEDQNTGAIENIIVEVKKEPDAEPA
EGEEEEAQAATDAPNGDLTPMILSMMDR

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.