



Recombinant Rat Transcriptional repressor CTCF (Ctcf)

Product Code	CSB-EP874175RA-B
Abbreviation	Ctcf
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9R1D1
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MEGEAVEAIV EESETFIKGK ERKTYQRRRE GGQEEDACHL PQNQTDGGEV VQDVNSSVQM VMMEQLDPTL LQMKTEVMEG TVAPEAEA AV DDTQIITLQV VNMEEQPINI GELQLVQVPV PVTVPVATTS VEELQGAYEN EVSKEGLAES EPMICHTLPL PEGFQVVKVG ANGEVETLEQ GELPPQEDPS WQKDPDYQPP AKKTKKTKKS KLRYTEEGKD VDVSVDYDFEE EQQEGLLSEV NAEKVVGNMK PPKPTKIKKK GVKKTFQCEL CSYTCPRRSN LDRHMKSHTD ERPHKCHLCG RAFRTVTLLR NHLNTHTGTR PHKCPDCDMA FVTSGELVRH RRYKHTHEKP FKCSMCDYAS VEVSKLKRHI RSHTGERPFQ CSLCSYASRD TYKLKRHMRT HSGEKPYECY ICHARFTQSG TMKMHILQKH TENVAKFHCP HCDTVIARKS DLGVHLRKQH SYIEQGKKCR YCDAVFHERY ALIQHQKSHK NEKRFKCDQC DYACRQERHM IMHKRHTHTGE KPYACSHCDK TFRQKQLLDM HFKRYHDPNF VPAAFVCSKC GKTFTRRNTM ARHADNCAGP DGVEGENGGE TKKSKRGRKR KMRSKEDSS DSENAEPDL DNEEEEEPAV EIEPEPEPQP QPQPQPQP VAPAPPAKK RRGRRPPGRTN QPKQNQPTAI IQVEDQNTGA IENIIVEVKK EPDAEPAEGE EEEAQAAPAD APNGDLTPEM ILSMMDR
Source	E.coli
Target Names	Ctcf
Protein Names	Recommended name: Transcriptional repressor CTCF Alternative name(s): 11-zinc finger protein CCCTC-binding factor CTCFL paralog
Expression Region	1-737
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.