

## Product datasheet for **TA330058**

### CTCF Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB, ChIP
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CTCF antibody: synthetic peptide directed towards the N terminal of human CTCF. Synthetic peptide located within the following region: GELPPQEDPSWQKDPDYQPPAKKTKKTKKSLRYTEEGKDVDVSVYDFEE
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	83 kDa
Gene Name:	CCCTC-binding factor
Database Link:	<a href="#">NP_006556</a> <a href="#">Entrez Gene 10664 Human P49711</a>



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**Background:**

CTCF is 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 CTCF have been associated with invasive breast cancers, prostate cancers, and Wilms' tumors. 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.

**Synonyms:**

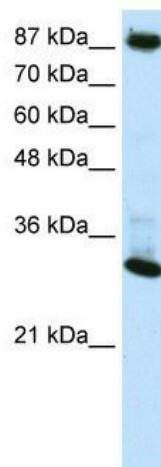
MRD21

**Note:**

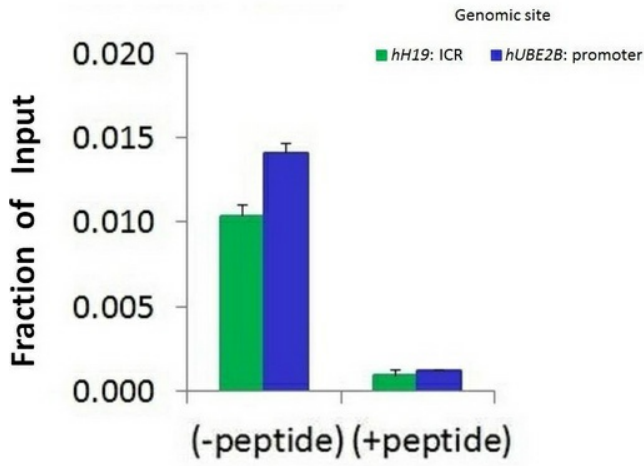
Immunogen sequence homology: Bovine: 100%; Dog: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Chicken: 92%

**Protein Families:**

Transcription Factors

**Product images:**

WB Suggested Anti-CTCF Antibody Titration: 0.2-1 ug/ml; Positive Control: Transfected 293T



Chromatin Immunoprecipitation (ChIP) Using CTCF antibody - N-terminal region and HCT116 Cells