

Rabbit anti-Human, Mouse CTCF Polyclonal Antibody | anti-CTCF antibody

CTCF Antibody (N-Term)

CATALOG # AAA290599	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS Western Blot
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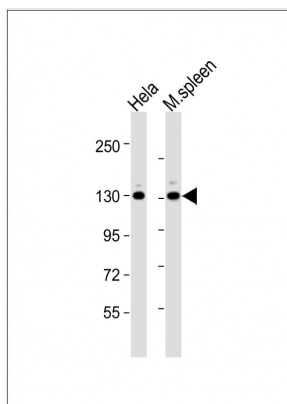
PRODUCT SYNONYMS

CTCF; Polyclonal Antibody; CTCF Antibody (N-Term); Purified Rabbit Polyclonal Antibody (Pab); Transcriptional repressor CTCF; 11-zinc finger protein; CCCTC-binding factor; CTCFL paralog; anti-CTCF antibody

PRODUCT SPECIFICATIONS

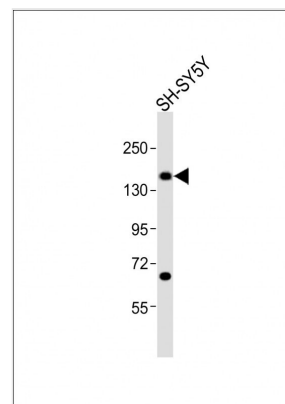
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Ig
Specificity	This CTCF antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 185-216 amino acids from human CTCF.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	399
Applicable Applications for anti-CTCF antibody	WB (Western Blot)
Antigen Source	Human
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

All lanes : Anti-CTCF Antibody (N-Term) at 1:2000 dilution
Lane 1: HeLa whole cell lysates
Lane 2: mouse spleen lysates
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution
Predicted band size : 83 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.



WB (Western Blot)

Anti-CTCF Antibody (N-Term) at 1:2000 dilution + SH-SY5Y whole cell lysates
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution
Predicted band size : 83 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-CTCF antibody	Chromatin binding factor that binds to DNA sequence specific sites. Involved in transcriptional regulation by binding to chromatin insulators and preventing interaction between promoter and nearby enhancers and silencers. Acts as transcriptional repressor binding to promoters of vertebrate MYC gene and BAG1 gene. Also binds to the PLK and PIM1 promoters. Acts as a transcriptional activator of APP. Regulates APOA1/C3/A4/A5 gene cluster and controls MHC class II gene expression. Plays an essential role in oocyte and preimplantation embryo development by activating or repressing transcription. Seems to act as tumor suppressor. Plays a critical role in the epigenetic regulation. Participates in the allele-specific gene expression at the imprinted IGF2/H19 gene locus. On the maternal allele, binding within the H19 imprinting control region (ICR) mediates maternally inherited higher-order chromatin conformation to restrict enhancer access to IGF2. Plays a critical role in gene silencing over considerable distances in the genome. Preferentially interacts with unmethylated DNA, preventing spreading of CpG methylation and maintaining methylation-free zones. Inversely, binding to target sites is prevented by CpG methylation. Plays a important role in chromatin remodeling. Can dimerize when it is bound to different DNA sequences, mediating long-range chromatin looping. Mediates interchromosomal association between IGF2/H19 and WSB1/NF1 and may direct distant DNA segments to a common transcription factory. Causes local loss of histone acetylation and gain of histone methylation in the beta-globin locus, without affecting transcription. When bound to chromatin, it provides an anchor point for nucleosomes positioning. Seems to be essential for homologous X-chromosome pairing. May participate with Tsix in establishing a regulatable epigenetic switch for X chromosome inactivation. May play a role in preventing the propagation of stable methylation at the escape genes from X- inactivation. Involved in sister chromatid cohesion. Associates with both centromeres and chromosomal arms during metaphase and required for cohesin localization to CTCF sites. Regulates asynchronous replication of IGF2/H19.
Product Categories/Family for anti-CTCF antibody	Crown Antibodies
References	Filippova G.N.,et al.Mol. Cell. Biol. 16:2802-2813(1996). Filippova G.N.,et al.Genes Chromosomes Cancer 22:26-36(1998). Filippova G.N.,et al.Cancer Res. 62:48-52(2002). Kalnine N.,et al.Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases. Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DBJ databases.

NCBI AND UNIPROT INFORMATION

NCBI GI #	300388142
NCBI GeneID	10664
NCBI Accession #	NP_001177951.1
NCBI GenBank Nucleotide #	NM_001191022.1
UniProt Accession #	P49711; Q53XI7; Q59EL8; B5MC38
Molecular Weight	82785
NCBI Official Full Name	transcriptional repressor CTCF isoform 2
NCBI Official Synonym Full Names	CCCTC-binding factor (zinc finger protein)
NCBI Official Symbol	CTCF
NCBI Official Synonym Symbols	MRD21
NCBI Protein Information	transcriptional repressor CTCF
UniProt Protein Name	Transcriptional repressor CTCF
UniProt Gene Name	CTCF
UniProt Entry Name	CTCF_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ctcf-antibody-western-blot-elisa/290599>