

## Rabbit anti-Human CTCF Antibody | anti-CTCF antibody

AbFlex CTCF antibody (rAb)

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                     |
|-----------|--------|------------|------------------------------------------------------------------|
| AAA60284  | Rabbit | Human      | Western Blot, Chromatin Immunoprecipitation, Immunoprecipitation |

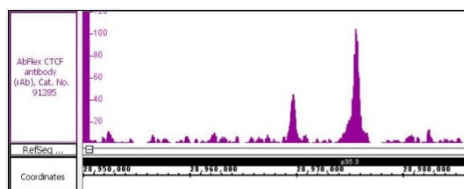
### PRODUCT SYNONYMS

CTCF; AbFlex CTCF antibody (rAb); CCCTC-Binding Factor; MRD21; anti-CTCF antibody

### PRODUCT SPECIFICATIONS

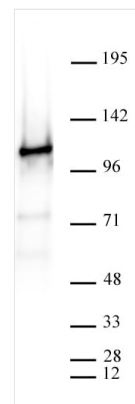
|                                                |                                                                                                                                                                                                                                                                                           |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                    |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                                     |
| Isotype                                        | IgG                                                                                                                                                                                                                                                                                       |
| Purity/Purification                            | Protein A Chromatography                                                                                                                                                                                                                                                                  |
| Form/Format                                    | Purified IgG in 140mM Hepes, pH7.5, 70mM NaCl, 32mM NaOAc, 0.035% sodium azide, 30% glycerol. Sodium azide is highly toxic.                                                                                                                                                               |
| Concentration                                  | 1ug/ul (varies by lot)                                                                                                                                                                                                                                                                    |
| Applicable Applications for anti-CTCF antibody | WB (Western Blot), ChIP (Chromatin immunoprecipitation)                                                                                                                                                                                                                                   |
| Antibody Type                                  | Recombinant Antibody                                                                                                                                                                                                                                                                      |
| Immunogen                                      | This antibody was raised against a peptide within human CTCF.                                                                                                                                                                                                                             |
| Preparation and Storage                        | Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul |

### IMAGES



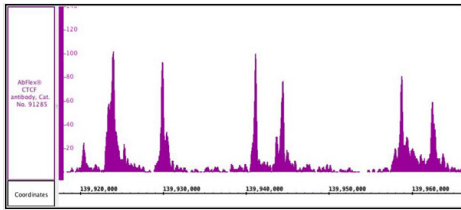
#### Application Data

AbFlex CTCF recombinant antibody (rAb) tested by CUT&Tag CUT&Tag was performed using 250,000 K562 cells and sequenced using 38 base-pair, paired-end reads on the Illumina NextSeq 500/550. Data was collected from 21 million reads, and CTCF data is shown for Chromosome 1.



#### WB (Western Blot)

AbFlex CTCF antibody (rAb) tested by Western blot. 20 ug of HeLa cell nuclear extract was run on SDS-PAGE and probed with AbFlex CTCF antibody at 0.2 ug/ml.



**ChIP (Chromatin Immunoprecipitation)**  
 AbFlex CTCF recombinant antibody (rAb) tested by ChIP-Seq Chromatin immunoprecipitation (ChIP) was performed using the ChIP-IT High Sensitivity Kit with 30 ug of MCF7 chromatin and 4 ug of CTCF antibody. ChIP DNA was sequenced on the Illumina NextSeq and 8.9 million sequence tags were mapped to identify CTCF binding sites on chromosome 9.

ADDITIONAL INFORMATION

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Related Product Information for anti-CTCF antibody</b></p> | <p>Short Description: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. Our AbFlex CTCF antibody (rAb) was raised in a Rabbit host. It has been validated for use in ChIP-Seq, CUT&amp;Tag and Western blot; it has been shown to react with Human samples.</p> <p>Background: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. AbFlex CTCF antibody was expressed in CHO cells and contains rabbit immunoglobulin heavy and light chains. CTCF (CCCTC-binding factor, zinc finger protein) is a chromatin binding factor that binds to DNA sequence specific sites. It is involved in transcriptional regulation by binding to chromatin insulators and preventing interaction between promoter and nearby enhancers and silencers. 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.</p> |
| <p><b>Product Categories/Family for anti-CTCF antibody</b></p>   | <p>Primary Antibodies</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                          |
|----------------------------------|------------------------------------------|
| NCBI GI #                        | 5729790                                  |
| NCBI GeneID                      | 10664                                    |
| NCBI Accession #                 | NP_006556                                |
| NCBI GenBank Nucleotide #        | NM_006565                                |
| UniProt Accession #              | P49711                                   |
| Molecular Weight                 | 83kDa                                    |
| NCBI Official Full Name          | transcriptional repressor CTCF isoform 1 |
| NCBI Official Synonym Full Names | CCCTC-binding factor                     |
| 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                                     |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/rabbit-human-antibody/ctcf/60284>