OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA397434S

CTCF Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	**WB**: 1:500-1:2,000 **IHC**: 5µg/mL **ELISA**: 1:10,000-1:50,000
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared by repeated immunizations with a synthetic peptide corresponding to a region near the C-terminus of CTCF protein.
Specificity:	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with endogenous CTCF protein. A BLAST analysis was used to suggest reactivity with CTCF from human, mouse, horse, bovine, panda, rabbit, Danio, and chicken based on a 100% homology with the immunizing sequence. Cross-reactivity with CTCF from other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is three (3) months from date of receipt.
Gene Name:	CCCTC-binding factor
Database Link:	Entrez Gene 10664 Human P49711

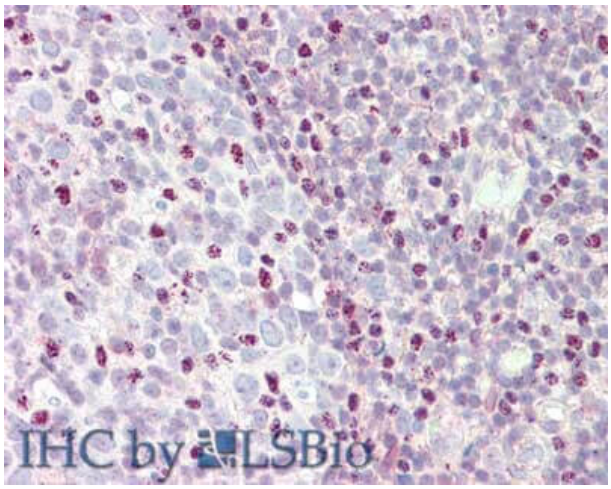
View online »

Background: Transcriptional repressor CTCF (also known as CCCTC-binding factor) is a transcription factor encoded by the CTCF gene. The CTCF, and the closely related Brother of the Regulator of Imprinted Sites (BORIS), are highly conserved zinc finger proteins implicated in diverse regulatory functions, including transcriptional activation/repression, insulation, imprinting, and X chromosome inactivation. Expression of BORIS is restricted to spermatocytes and is mutually exclusive of CTCF expression. CTCF is ubiquitously expressed in higher eukaryotes and contains a highly conserved and eleven zinc finger central DNA-binding domain, having very high homology between mouse, chicken, and human and is embedded within slightly divergent N and C termini. CTFC plays a critical role in the epigenetic regulation and chromatin remodeling. CTCF has been reported to bind to a variety of DNA target sites that perform distinct functions, including promoter activation or repression, hormone-responsive gene silencing, methylation-dependent chromatin insulation, and genomic imprinting.

Synonyms: rabbit anti-CTCF Antibody, Transcriptional repressor CTCF, 11-zinc finger protein, CCCTC-binding factor, CTCFL paralog

Note: CTCF antibody has been tested by ELISA, Immunohistochemistry, and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 82.8 kDa or 150 kDa in size corresponding to CTCF by western blotting in the appropriate cell lysate or extract.

Product images:



Immunohistochemistry of rabbit anti-CTCF antibody. Tissue: tonsil. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-CTCF at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: CTCF as precipitated red signal with hematoxylin purple nuclear counterstain.