CTCF Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Catalog No. A300-543A

Lot No. A300-543A-6

Protein ID NP_006556.1

GeneID 10664

APPLICATIONS	WB, IP, IHC
SPECIES REACTIVITY	Human, Mouse
PRESUMED REACTIVITY	Based on 100% sequence identity, this antibody is predicted to react with Rat
AMOUNT	100 µl
CONCENTRATION	200 µg/ml
STORAGE/SHELF LIFE	2 - 8° C / 1 year from date of receipt
PHYSICAL STATE	Liquid
BUFFER	Tris-buffered Saline containing 0.1% BSA and 0.09% Sodium Azide
ISOTYPE	IgG
ORIGIN	USA
PRODUCTION PROCEDURES	Antibody was affinity purified using an epitope specific to CTCF immobilized on solid support. The epitope recognized by A300-543A maps to a region between residues 650 and 700 of human CCCTC-binding factor using the numbering given in entry NP_006556.1 (GeneID 10664). Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.
APPLICATIONS	Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.

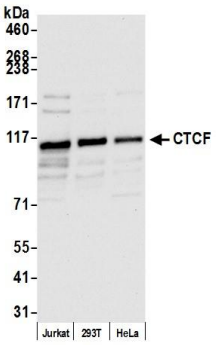
Western Blot	1:2,000 - 1:10,000
Immunoprecipitation	2 - 10 µg/mg lysate
Immunohistochemistry	1:500 to 1:2,000. Epitope retrieval with Tris-EDTA pH9.0 is recommended for FFPE tissue sections.

APPLICATION NOTES	Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020), Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-8% SDS-PAGE (link to IP-western blot protocol in Additional Info section below). Western blot of lysates performed using standard western blot reagents and 4-8% SDS-PAGE.
IHC HUMAN CONTROLS	Breast Carcinoma, Lung, Ovarian Carcinoma, Small Cell Lung Cancer, Stomach Adenocarcinoma
IHC MOUSE CONTROLS	Renal Cell Carcinoma
ADDITIONAL INFO	https://www.bethyl.com/product/A300-543A Use the link above to view SDS, a current list of citations, and other product specific information. IP-western blot protocol: https://www.bethyl.com/content/protocol_IP_WB

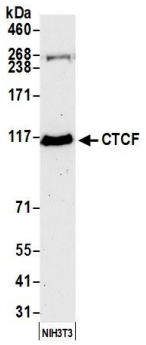
This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.

Eric McIntush, PhD | Chief Scientific Officer

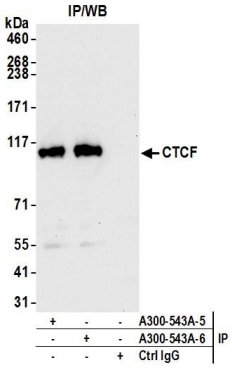
Date: June 24, 2019



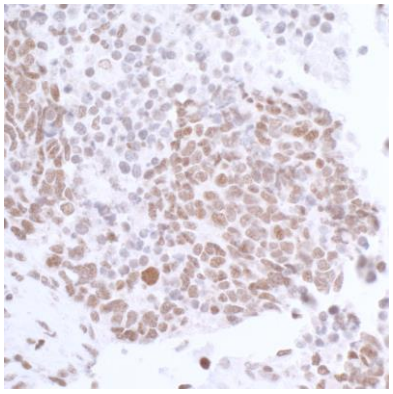
Detection of human CTCF by western blot. *Samples:* Whole cell lysate (50 µg) from Jurkat, HEK293T, and HeLa cells prepared using NETN lysis buffer. *Antibody:* Affinity purified rabbit anti-CTCF antibody A300-543A (lot A300-543A-6) used for WB at 0.02 µg/ml. *Detection:* Chemiluminescence with an exposure time of 10 seconds.



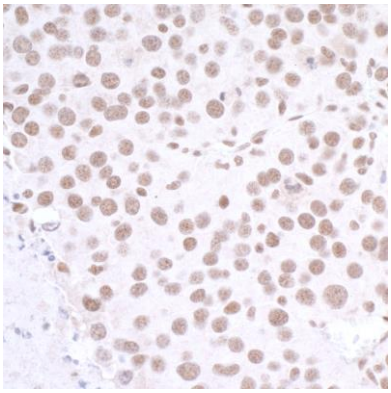
Detection of mouse CTCF by western blot. *Samples:* Whole cell lysate (50 µg) from NIH 3T3 cells prepared using NETN lysis buffer. *Antibody:* Affinity purified rabbit anti-CTCF antibody A300-543A (lot A300-543A-6) used for WB at 0.02 µg/ml. *Detection:* Chemiluminescence with an exposure time of 75 seconds.



Detection of human CTCF by western blot of immunoprecipitates. *Samples:* Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from Jurkat cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-CTCF antibody A300-543A (lot A300-543A-6) used for IP at 6 µg per reaction. CTCF was also immunoprecipitated by a previous lot of this antibody (lot A300-543A-5). For blotting immunoprecipitated CTCF, A300-543A was used at 0.02 µg/ml. *Detection:* Chemiluminescence with an exposure time of 10 seconds.



Detection of human CTCF by immunohistochemistry. *Sample:* FFPE section of human small cell lung cancer. *Antibody:* Affinity purified rabbit anti-CTCF antibody (A300-543A lot 6) used at 1:1000. *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-501P).



Detection of mouse CTCF by immunohistochemistry.
Sample: FFPE section of mouse renal cell carcinoma. *Antibody:* Affinity purified rabbit anti-CTCF antibody (A300-543A lot 6) used at 1:1000. *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-501P).