

CTCF Monoclonal Antibody (G.758.4)

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Non-human primate, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Monoclonal
Type	Antibody
Clone	G.758.4
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to the carboxy terminus of the human CTCF protein
Form	Liquid
Concentration	91 µg/mL
Purification	Affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol
Contains	<0.02% sodium azide
Storage conditions	-20°C
RRID	AB_10982171

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:640-1:2560	-
Immunocytochemistry (ICC/IF)	1:100	-
Immunoprecipitation (IP)	1:50	-
ChIP assay (ChIP)	10 µl/10 ⁶ cells	1 Publication

Product Specific Information

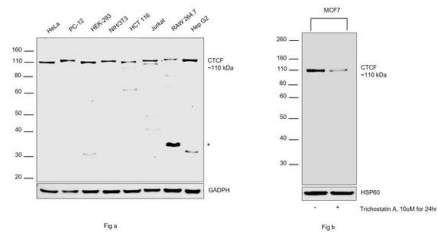
It is not recommended to aliquot this antibody.

This antibody is not cross-reactive with BORIS.

Product Images For CTCF Monoclonal Antibody (G.758.4)

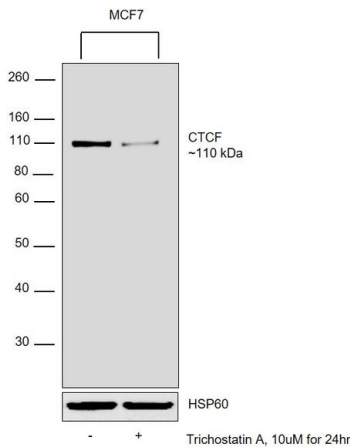
CTCF Antibody (MA5-11187) in WB

Western blot was performed using Anti-CTCF Monoclonal Antibody (G.758.4) (Product # MA5-11187) and a 110 kDa band corresponding to CTCF was observed across all the cell lines tested and as reported, decrease in the expression of CTCF was observed in MCF7 treated with Trichostatin A. An uncharacterized band (*) at ~30kDa was also found in few samples. Modified whole cell extracts (1% SDS) (30 µg lysate) of Fig (a) HeLa (Lane 1), PC-12 (Lane 2), HEK-293 (Lane 3), NIH/3T3 (Lane 4), HCT 116 (Lane 5), Jurkat (Lane 6), RAW 264.7 (Lane 7), Hep G2 (Lane 8); Fig (b) MCF7 (Lane 1) and MCF7 treated with Trichostatin A (10uM for 24hr) (Lane 2) were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



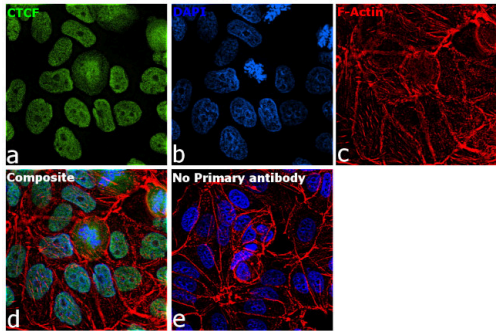
CTCF Antibody (MA5-11187)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using CTCF Polyclonal Antibody (Product # MA5-11187), shows decreased expression of CTCF in MCF7 cells upon Trichostatin A treatment. {TM}



CTCF Antibody (MA5-11187) in ICC/IF

Immunofluorescence analysis of CTCF was performed using 70% confluent log phase MCF7 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with CTCF Monoclonal Antibody (G.758.4) (Product # MA5-11187) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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ChIP assay (1)

Genome research	Year 2018
Study of mitotic chromatin supports a model of bookmarking by histone modifications and reveals nucleosome deposition patterns.	Species Human
"MA5-11187 was used in Chromatin immunoprecipitation to focus on key histone modifications with HeLa-S3 cells as a model system and investigate the nucleosome that enters nucleosome depleted regions (NDRs) during mitosis."	
Authors: Javasky E,Shamir I,Gandhi S,Egri S,Sandler O,Rothbart SB,Kaplan N,Jaffe JD,Goren A,Simon I	

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