[KO Validated] CTCF Monoclonal Antibody

CAB19588

Description

This [KO Validated] CTCF Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Product Information

SKU:	CAB19588
Contents:	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibody
Synonyms:	MRD21, FAP108, CFAP108, CTCF
Clone:	ARC0067
Applications:	WB IF/ICC IP ChIP ChIP-seq ELISA CUT&Tag
Conjugation:	Unconjugated
Reactivity:	Human, Mouse, Rat

Antibody Data

Gene ID:	10664
Uniprot:	AB_2862685
Host Species:	Rabbit
Purification:	Affinity purification
Observed MW:	140 kDa
Calculated MW:	83 kDa

Preparation & Storage

Storage: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3.
Store Bradford Reagent at Room Temperature for 1 Year.

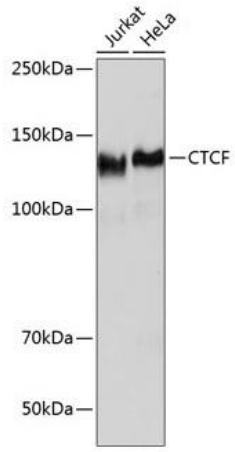
Positive Sample: Jurkat, HeLa, Mouse lung, 293T, C6

Recommended Dilutions:

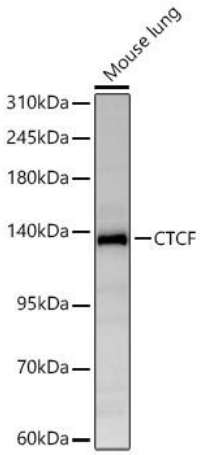
WB	1:1000 - 1:6000
IF/ICC	1:2000 - 1:3000
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. ChIP 5μg antibody for 10μg-15μg of Chromatin ChIP-seq 1:50 - 1:100 CUT&Tag 10^5 cells /2 μg

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

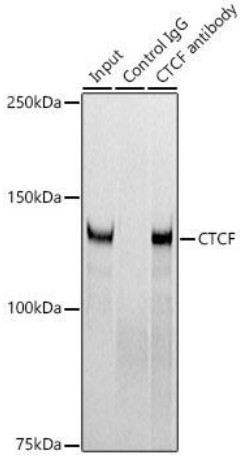
Validation Data



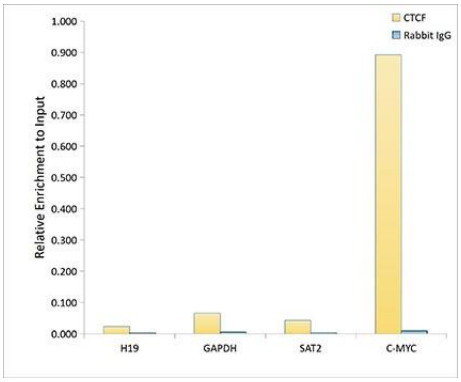
Western blot analysis of various lysates using CTCF Rabbit mAb (CAB19588) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25μg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 30s.



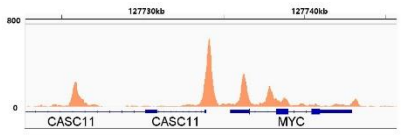
Western blot analysis of lysates from Mouse lung using CTCF Rabbit mAb (CAB19588) at 1:1000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 45s.



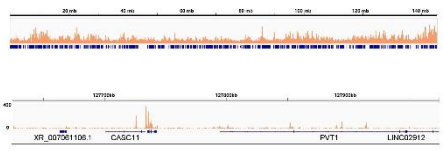
Immunoprecipitation analysis of 300 µg extracts of 293T cells using 3 µg CTCF antibody (CAB19588). Western blot was performed from the immunoprecipitate using CTCF antibody (CAB19588) at a dilution of 1:1000.



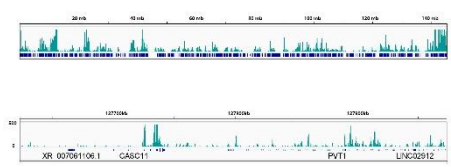
Chromatin immunoprecipitation analysis of extracts of 293T cells, using CTCF antibody (CAB19588) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



Chromatin immunoprecipitation was performed with 25 µg of cross-linked chromatin from 293T cells using 5 µg of CTCF Rabbit mAb (CAB19588). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina. The ChIP sequencing results indicate the enrichment pattern of CTCF in the representative genomic region surrounding MYC gene.



Chromatin immunoprecipitation was performed with 25 µg of cross-linked chromatin from 293T cells using 5 µg of CTCF Rabbit mAb (CAB19588). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina. The ChIP sequencing results indicate the enrichment pattern of CTCF across chromosome 8 (upper panel) and the genomic region encompassing



MYC, a representative gene enriched in CTCF (lower panel).

CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina from 10^5 cells with 2ug µg of CTCF Rabbit mAb (CAB19588), followed by incubation with Goat Anti-Rabbit IgG(H+L)(CABS070). The CUT&Tag results denote the enrichment pattern of CTCF across chromosome 8 (upper panel) and the genomic region encompassing MYC, a representative gene enriched in CTCF (lower panel).