

CTCF Polyclonal Antibody

Catalog number: 10915-1-AP

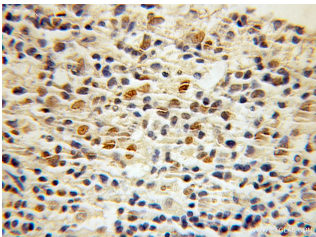
Size: 27 µg/150 µl

Source: Rabbit

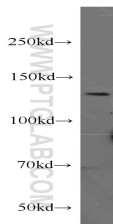
Isotype: IgG

Synonyms:

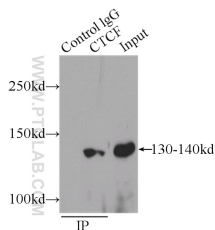
CTCF; 11 zinc finger protein,
CCCTC binding factor, CTCF,
CTCFL paralog, Transcriptional
repressor CTCF



Immunohistochemical of paraffin-embedded human lymphoma using 10915-1-AP(CTCF antibody) at dilution of 1:100 (under 10x lens)



human brain tissue were subjected to SDS PAGE followed by western blot with 10915-1-AP(CTCF antibody) at dilution of 1:500



IP Result of anti-CTCF (IP:10915-1-AP, 5µg; Detection:10915-1-AP 1:300) with MCF-7 cells lysate 2560µg.

Background

Transcriptional insulators are DNA elements that set boundaries on the actions of enhancer and silencer elements and thereby organize the eukaryotic genome into regulatory domains. All vertebrate insulators appear to use the versatile CTCF protein. CTCF uses various combinations of its 11 zinc fingers to recognize a variety of unrelated DNA sequences. Once bound to DNA, CTCF can function as a transcriptional insulator, repressor, or activator, depending on the context of the binding site [PMID:12787766,15454938]. In vertebrates, this 11 zinc-finger protein is shown to be crucial in processes of epigenetic imprinting, X chromosome inactivation, and associated with various complex human diseases including cancer and diabetes [PMID:23139640].

Applications

Tested applications:	ELISA, WB, IHC, IP
Species specificity:	Human, Rat; other species not tested.
Calculated CTCF MW:	83 kDa
Observed CTCF MW:	130-140 kDa
Positive WB detected in	Human brain tissue, 4T1 cells, HEK-293T cells, U-937 cells
Positive IP detected in	MCF-7 cells
Positive IHC detected in	Human lymphoma tissue
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:1000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1340
GenBank accession number:	BC014267
Gene ID (NCBI):	10664
Full name:	CCCTC-binding factor (zinc finger protein)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.