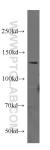
For Research Use Only

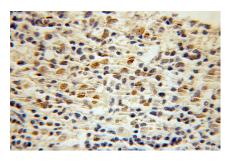
CTCF Polyclonal antibody Catalog Number: 10915-1-AP 5 Publications

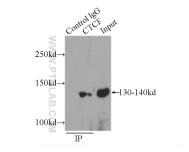
Antibodies | ELISA kits | Proteins www.ptglab.com

| Basic Information | Catalog Number: 10915-1-AP | GenBank Accession Numb BC014267 | per: | Purification Method: Antigen affinity purification | | | | |
|---|---|--|--|---|--|---|--|--|
| | Size: 150ul , Concentration: 400 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG | GeneID (NCBI): 10664 UNIPROT ID: P49711 Full Name: CCCTC-binding factor (zinc finger protein) | | Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200 IF/ICC 1:200-1:800 | | | | |
| | | | | | Immunogen Catalog Number: AG1340 | Calculated MW: 83 kDa | | |
| | | | | | | Observed MW: 55-100 kDa, 130-150 kDa | | |
| | Applications | Tested Applications: | Pc | Positive Controls: | | | | |
| | | Cited Applications: IP : MCF-7 WB, ChIP, RIP | | | man brain tissue, 4T1 cells, HEK-293T cells -7 cells, man lymphoma tissue, | | | |
| | | | | | | | | |
| Species Specificity: human, mouse | | IF/ICC : Hep | | | | | | |
| Cited Species: human | | | · | | | | | |
| Note-IHC: suggested antigen ı TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0 | | vely, antigen | | | | | | |
| Background Information | 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]. The calcualted molecular weight of CTCF is 83 kDa, but stimulation of human corneal epithelial cells with hypoxic stress suppressed a high molecular mass form of CTCF (150 kDa), but not a lower molecular weight form of CTCF (130 kDa)(PMID: 22354964), and there are multiple isoforms of CTCF with molecular masses of 55, 70, 73, 80, 97, and 130 kDa have been observed (PMID: 12878173). | | | | | | | |
| | shown to be crucial in processes of e complex human diseases including o is 83 kDa, but stimulation of human form of CTCF (150 kDa), but not a low multiple isoforms of CTCF with mole | cancer and diabetes [PMID:2 corneal epithelial cells with ver molecular weight form | 23139640]. h hypoxic s of CTCF (13 | activation , and associated with various The calcualted molecular weight of CTCF ress suppressed a high molecular mass 0 kDa)(PMID: 22354964), and there are | | | | |
| Notable Dublications | shown to be crucial in processes of e complex human diseases including o is 83 kDa, but stimulation of human form of CTCF (150 kDa), but not a low multiple isoforms of CTCF with mole 12878173). | cancer and diabetes [PMID:2 corneal epithelial cells with ver molecular weight form ecular masses of 55, 70, 73, | 23139640]. h hypoxic s of CTCF (13 | activation , and associated with various The calcualted molecular weight of CTCF ress suppressed a high molecular mass 0 kDa)(PMID: 22354964), and there are 130 kDa have been observed (PMID: | | | | |
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| Notable Publications | shown to be crucial in processes of er complex human diseases including of is 83 kDa, but stimulation of human form of CTCF (150 kDa), but not a low multiple isoforms of CTCF with mole 12878173). | concer and diabetes [PMID:2 corneal epithelial cells with ver molecular weight form ecular masses of 55, 70, 73, med ID Journal 65859 Carcinoge | 23139640]. h hypoxic s of CTCF (12 80, 97, and | activation , and associated with various The calcualted molecular weight of CTCF ress suppressed a high molecular mass 0 kDa)(PMID: 22354964), and there are 130 kDa have been observed (PMID: Application WB | | | | |
| Notable Publications | shown to be crucial in processes of ep complex human diseases including of is 83 kDa, but stimulation of human form of CTCF (150 kDa), but not a low multiple isoforms of CTCF with mole 12878173). Author Pub Haoxue Wang 346 Tao Chen 346 | cancer and diabetes [PMID:2 corneal epithelial cells with ver molecular weight form ecular masses of 55, 70, 73, med ID Journal | 23139640]. h hypoxic s of CTCF (1 <u>3</u> 80, 97, and nesis | activation , and associated with various The calcualted molecular weight of CTCF ress suppressed a high molecular mass 0 kDa)(PMID: 22354964), and there are 130 kDa have been observed (PMID: Application | | | | |
| Notable Publications | shown to be crucial in processes of ep complex human diseases including of is 83 kDa, but stimulation of human of form of CTCF (150 kDa), but not a low multiple isoforms of CTCF with mole 12878173). Author Pub Haoxue Wang 346 Tao Chen 346 | ancer and diabetes [PMID:2 corneal epithelial cells with ver molecular weight form ecular masses of 55, 70, 73, med ID Journal 65859 Carcinoge 34929 mBio | 23139640]. h hypoxic s of CTCF (1 <u>3</u> 80, 97, and nesis | activation , and associated with various The calcualted molecular weight of CTCF ress suppressed a high molecular mass 0 kDa)(PMID: 22354964), and there are 130 kDa have been observed (PMID: Application WB ChIP | | | | |
| Notable Publications | shown to be crucial in processes of er complex human diseases including of is 83 kDa, but stimulation of human of form of CTCF (150 kDa), but not a low multiple isoforms of CTCF with mole 12878173). Author Pub Haoxue Wang 346 Tao Chen 346 Longhui Xie 397 Storage: Storage auffer: PBS with 0.02% sodium azide and 50 | ancer and diabetes [PMID:2 corneal epithelial cells with ver molecular weight form ecular masses of 55, 70, 73, med ID Journal 65859 Carcinoge 34929 mBio 46496 Cell Signa ter shipment. | 23139640]. h hypoxic s of CTCF (1 <u>3</u> 80, 97, and nesis | activation , and associated with various The calcualted molecular weight of CTCF ress suppressed a high molecular mass 0 kDa)(PMID: 22354964), and there are 130 kDa have been observed (PMID: Application WB ChIP | | | | |
| | shown to be crucial in processes of er complex human diseases including of is 83 kDa, but stimulation of human form of CTCF (150 kDa), but not a low multiple isoforms of CTCF with mole 12878173). Author Pub Haoxue Wang 346 Tao Chen 346 Longhui Xie 397 Storage: Storage Store at -20°C. Stable for one year aff Storage Buffer: | ancer and diabetes [PMID:2 corneal epithelial cells with ver molecular weight form ecular masses of 55, 70, 73, med ID Journal 65859 Carcinoge 34929 mBio 46496 Cell Signa ter shipment. | 23139640]. h hypoxic s of CTCF (1 <u>3</u> 80, 97, and nesis | activation , and associated with various The calcualted molecular weight of CTCF ress suppressed a high molecular mass 0 kDa)(PMID: 22354964), and there are 130 kDa have been observed (PMID: Application WB ChIP | | | | |

Selected Validation Data







human brain tissue were subjected to SDS PAGE followed by western blot with 10915-1-AP (CTCF antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded human lymphoma using 10915-1-AP (CTCF antibody) at dilution of 1:100 (under 10x lens). IP result of anti-CTCF (IP:10915-1-AP, 5ug; Detection:10915-1-AP 1:300) with MCF-7 cells lysate 2560ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CTCF antibody (10915-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).