

For Research Use Only

CTGF Polyclonal antibody

Catalog Number: 23903-1-AP **13 Publications**



Basic Information

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| Catalog Number: 23903-1-AP | GenBank Accession Number: BC087839 | Purification Method: Antigen affinity purification |
| Size: 150ul, Concentration: 500 µg/ml by Nanodrop; | GeneID (NCBI): 1490 | Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: P29279 | |
| Isotype: IgG | Full Name: connective tissue growth factor | |
| Immunogen Catalog Number: AG20985 | Calculated MW: 349 aa, 38 kDa | |
| | Observed MW: 70 kDa | |

Applications

| | |
|--|--|
| Tested Applications: WB, IHC, IP, ELISA | Positive Controls: |
| Cited Applications: WB, IHC, IF | WB : mouse heart tissue, |
| Species Specificity: human, mouse | IP : mouse brain tissue, |
| Cited Species: human, mouse, rat | IHC : mouse heart tissue, human heart tissue, human nephroblastoma tissue, mouse brain tissue |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

CTGF, also known as CCN2, is a member of the CCN family of matricellular proteins. CTGF, a cysteine-rich, matrix-associated, heparin-binding protein, is widely expressed in various human tissues and organs. CTGF has important roles in many biological processes, including cell adhesion, migration, proliferation, angiogenesis, skeletal development, and tissue wound repair, and is critically involved in fibrotic disease and several forms of cancers. In western blotting, there are three different forms of CTGF reported: monomeric forms at approximately 36-38 kDa, homodimeric forms at approximately 70 kDa, and lower molecular mass fragment forms (PMID: 14592956).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|-------------------------|-------------|
| Kai Yang | 27942222 | Onco Targets Ther | WB |
| Xinliang Zou | 35900670 | J Cardiovasc Transl Res | WB,IHC |
| Shigehisa Aoki | 30406776 | Biomater Sci | WB,IHC |

Storage

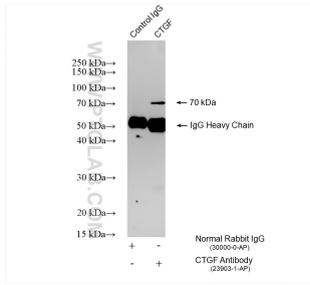
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

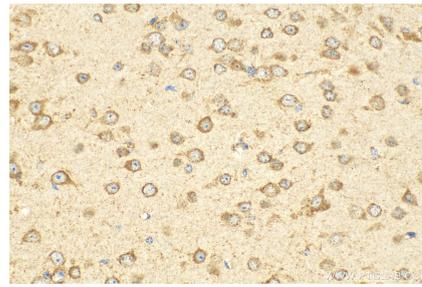
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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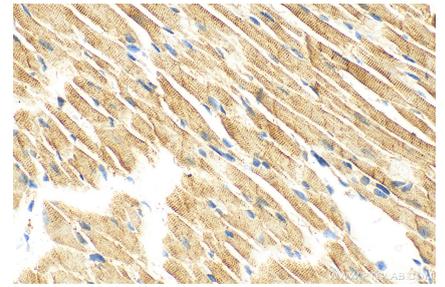
Selected Validation Data



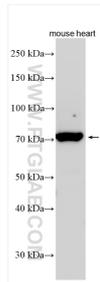
IP result of anti-CTGF (IP:23903-1-AP, 4ug; Detection:23903-1-AP 1:1000) with mouse brain tissue lysate 1800 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 23903-1-AP (CTGF antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 23903-1-AP (CTGF antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 23903-1-AP (CTGF antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.