

CTGF Antibody

Mouse Monoclonal Antibody (Mab) Catalog # AM2095b

Specification

CTGF Antibody - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Calculated MW Antigen Region WB,E <u>P29279</u> <u>O9R1E9</u>, <u>O19113</u>, <u>P29268</u>, <u>NP_001892.1</u> Human Mouse, Pig, Rat Monoclonal IgG2b 38091 166-193

CTGF Antibody - Additional Information

Gene ID 1490

Other Names

Connective tissue growth factor, CCN family member 2, Hypertrophic chondrocyte-specific protein 24, Insulin-like growth factor-binding protein 8, IBP-8, IGF-binding protein 8, IGFBP-8, CTGF, CCN2, HCS24, IGFBP8

Target/Specificity

This CTGF antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 166-193 amino acids from human CTGF.

Dilution

WB~~1:100

E~~Use at an assay dependent concentration.

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CTGF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CTGF Antibody - Protein Information

Name CCN2 (<u>HGNC:2500</u>)



Function Major connective tissue mitoattractant secreted by vascular endothelial cells. Promotes proliferation and differentiation of chondrocytes. Is involved in the stimulation of osteoblast differentiation and has a critical role in osteogenesis (PubMed:<u>39414788</u>). Mediates heparin- and divalent cation-dependent cell adhesion in many cell types including fibroblasts, myofibroblasts, endothelial and epithelial cells. Enhances fibroblast growth factor- induced DNA synthesis.

Cellular Location

Secreted, extracellular space, extracellular matrix {ECO:0000250|UniProtKB:P29268}. Secreted

Tissue Location

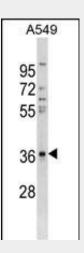
Expressed in bone marrow and thymic cells. Also expressed one of two Wilms tumors tested.

CTGF Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

CTGF Antibody - Images



CTGF Antibody(Cat. #AM2095b) western blot analysis in A549 cell line lysates (35µg/lane).This demonstrates the CTGF antibody detected the CTGF protein (arrow).

CTGF Antibody - Background

The protein encoded by this gene is a mitogen that is secreted by vascular endothelial cells. The encoded protein plays a role in chondrocyte proliferation and differentiation, cell adhesion in many cell types, and is related to platelet-derived growth factor. Certain polymorphisms in this gene have been linked with a higher incidence of systemic sclerosis. [provided by RefSeq].



CTGF Antibody - References

Behrens, M.E., et al. Oncogene 29(42):5667-5677(2010) Cunningham, J.L., et al. Eur. J. Endocrinol. 163(4):691-697(2010) Ito, Y., et al. Am. J. Physiol. Renal Physiol. 299 (3), F545-F558 (2010) : Adler, S.G., et al. Clin J Am Soc Nephrol 5(8):1420-1428(2010) Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :