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CTGF Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7778B

Product Information

Application	IHC-P, WB, E
Primary Accession	P29279
Other Accession	Q9R1E9, O19113, P29268, O18739, NP_001892
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Mouse, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14436
Calculated MW	38091
Antigen Region	315-349

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 rabbits immunized with a KLH conjugated synthetic peptide between 315-349 amino acids from the C-terminal region of human CTGF.
Dilution	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation 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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CCN2 (HGNC:2500)
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:39414788). 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.

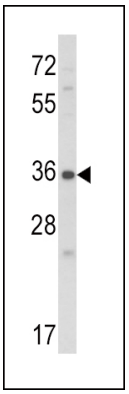
Background

Connective tissue growth factor (CTGF), a member of the CCN family of secreted matricellular proteins, regulates fibrosis, angiogenesis, cell proliferation, apoptosis, tumor growth, and metastasis.

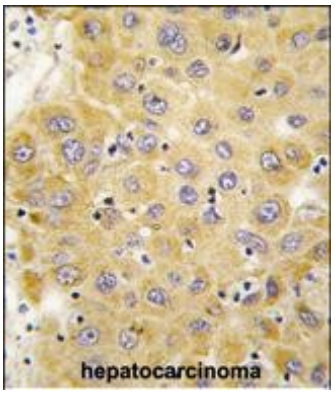
References

Li,M.H., Mol. Cancer Res. 6 (10), 1649-1656 (2008)
Bogatkevich,G.S., Am. J. Physiol. Lung Cell Mol. Physiol. 295 (4), L603-L611 (2008)
Zhang,P., Tohoku J. Exp. Med. 215 (3), 199-206 (2008)

Images



Western blot analysis of CTGF Antibody (C-term) (Cat. #AP7778b) in NCI-H460 cell line lysates (35ug/lane). CTGF (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with CTGF antibody (C-term) (Cat.#AP7778b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Citations

- BHLHE40 confers a pro-survival and pro-metastatic phenotype to breast cancer cells by modulating HBEGF secretion.

- miR-550a-3-5p acts as a tumor suppressor and reverses BRAF inhibitor resistance through the direct targeting of YAP.