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Anti-CTGF Picoband Antibody

Catalog # ABO12228

Product Information

Application	WB, IHC-P
Primary Accession	P29279
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Connective tissue growth factor(CTGF) detection. Tested with WB, IHC-P in Human;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Calculated MW	38091
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat Western blot, 0.1-0.5 □g/ml, Human, Rat
Subcellular Localization	Secreted, extracellular space, extracellular matrix . Secreted .
Tissue Specificity	Expressed in bone marrow and thymic cells. Also expressed one of two Wilms tumors tested. .
Source	Eukaryota
Protein Name	Connective tissue growth factor
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human CTGF recombinant protein (Position: R58-A349). Human CTGF shares 95.5% and 95.9% amino acid (aa) sequence identity with mouse and rat CTGF, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the CCN family.

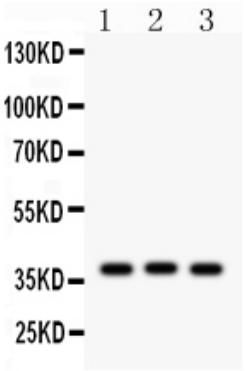
Protein Information

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

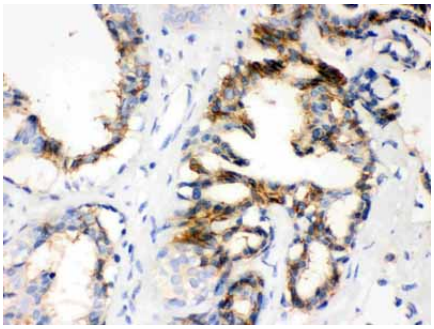
CTGF, also known as CCN2 or connective tissue growth factor, is a matricellular protein of the CCN family of extracellular matrix-associated heparin-binding proteins (see also CCN intercellular signaling protein). CTGF has important roles in many biological processes, including cell adhesion, migration, proliferation, angiogenesis, skeletal development, and tissue wound repair, and is critically involved in fibrotic disease and several forms of cancers. The protein encoded by this gene is a mitogen that is secreted by vascular endothelial cells. And 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.

Images



Anti- CTGF Picoband antibody, ABO12228, Western blottingAll lanes: Anti CTGF (ABO12228) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Rat Thymus Tissue Lysate at 50ugLane 3: HELA Whole Cell Lysate at 40ugPredicted bind size: 38KDObserved bind size: 38KD

Anti- CTGF Picoband antibody, ABO12228, IHC(P)IHC(P): Human Mammary Cancer Tissue



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