10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CTGF Picoband Antibody

Catalog # ABO12228

Specification

Anti-CTGF Picoband Antibody - Product Information

Application	**WB, IHC**
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.

Anti-CTGF Picoband 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

Calculated MW
38091 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/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. .

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.

Anti-CTGF Picoband Antibody - Protein Information

Name CCN2 (HGNC:2500)

Function
Major connective tissue mitoattractant secreted by vascular endothelial cells. Promotes proliferation and differentiation of chondrocytes. 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 {ECO:0000250|UniProtKB:P29268}

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

Anti-CTGF Picoband Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CTGF Picoband Antibody - Images

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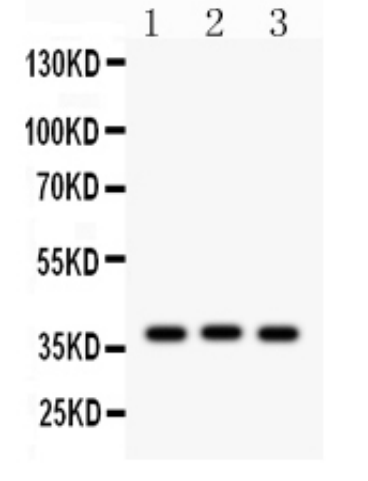
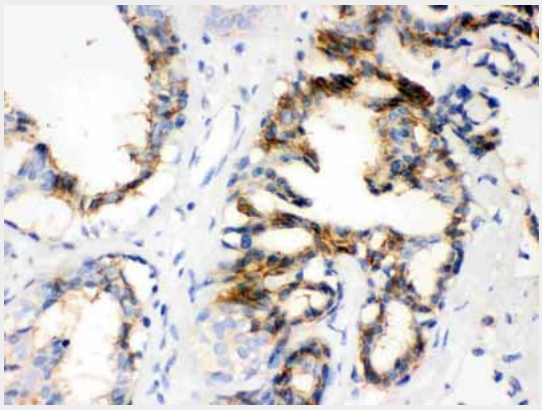


Anti- CTGF Picoband antibody, ABO12228, Western blottingAll lanes: Anti CTGF (ABO12228) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Rat Thymus Tissue Lysate at 50ugLane 3: HELA Whole Cell Lysate at 40ugPredicted bind size: 38KDObserved bind size: 38KD



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

Anti-CTGF Picoband Antibody - 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.