

### Anti-CTGF antibody ab5097

★★★★★ [9 Abreviews](#) [21 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-CTGF antibody
<b>Description</b>	Rabbit polyclonal to CTGF
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody detects recombinant human CTGF by Western Blotting. The band can be blocked by the immunising peptide ( <a href="#">ab13741</a> ). We have been unable to detect endogenous protein in WB with ab5097.
<b>Tested applications</b>	<b>Suitable for:</b> ICC, IHC-Fr, WB, IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human, Pig, Recombinant fragment
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>Batches of this product that have a concentration &lt; 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.</p>
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab5097 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		Use a concentration of 1 µg/ml.
IHC-Fr	★★★★★ (2)	Use at an assay dependent concentration.
WB		1/500. Predicted molecular weight: 38 kDa. This application has only been tested on recombinant protein.
IHC-P	★★★★★ (6)	Use at an assay dependent concentration. PubMed: 17028989
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.

## Target

### Function

Major connective tissue mitogen 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.

### Tissue specificity

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

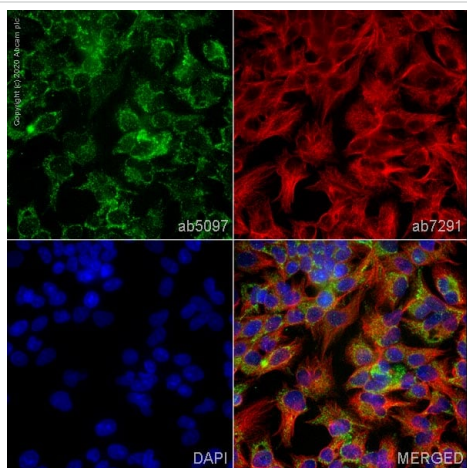
### Sequence similarities

Belongs to the CCN family.  
Contains 1 CTCK (C-terminal cystine knot-like) domain.  
Contains 1 IGFBP N-terminal domain.  
Contains 1 TSP type-1 domain.  
Contains 1 VWFC domain.

### Cellular localization

Secreted > extracellular space > extracellular matrix. Secreted.

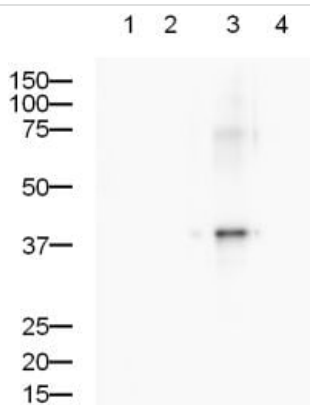
## Images



Immunocytochemistry - Anti-CTGF antibody  
(ab5097)

ab5097 staining CTGF in HepG2 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab5097 at 1µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.

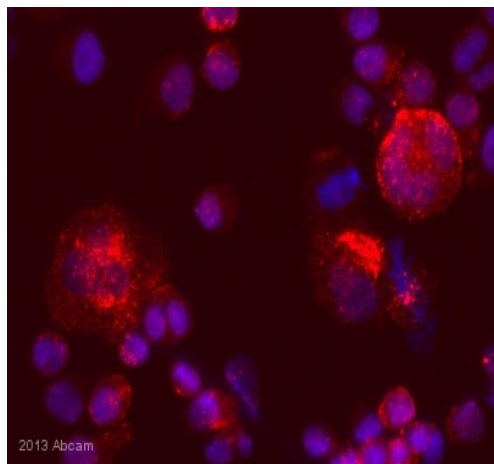


Western blot - Anti-CTGF antibody (ab5097)

Western blot, on recombinant Human CTGF produced in E. coli, using ab5097 at 1/500.

Not yet tested against endogenous CTGF

Secondary antibody - **anti-rabbit HRP (ab6721)**



Immunocytochemistry - Anti-CTGF antibody  
(ab5097)

This image is courtesy of an Abreview submitted by  
Beate Thode

ab5097 staining CTGF in Human HeLa, cervix cancer cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.2% Triton X-100 in PBS and blocked with 1% normal goat serum for 30 minutes. Samples were incubated with primary antibody (1/750) for 4 hours at 20°C. A Cy3®-conjugated Goat anti-rabbit polyclonal was used as the secondary antibody (1/800).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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