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Anti-CTGF, Rabbit-Polyclonal Antibody

Catalog No. GB-10520 Quantity: 100µg Applications tested: ELISA, Western blot

Antigen species: Human Reactivity: Human

Host species: Rabbit Form: Protein A affinity purified antibody

Target description

Connective Tissue Growth Factor (CTGF) is a member of the CCN family of proteins, which regulates biological processes including stimulation of cell proliferation, migration and adhesion. The N-terminal domain of CTGF mediates myofibroblast differentiation and collagen synthesis. The C-terminal domain of CTGF mediates fibroblast proliferation. Although multiple target cell types have been identified for CCN proteins, there is strong evidence supporting a role for CTGF and CYR61 in the regulation of endothelial cell function and angiogenesis. The expression pattern of CTGF and CYR61 in endothelial cells of vessels in situ supports a role for these molecules in normal endothelial homeostasis , as well as participating in the angiogenic process during embryonic development, placentation , tumor formation, fibrosis and wound healing.

Antigen

This polyclonal antibody was raised by immunizing rabbit 1. with E. coli derived CTGF (aa. 182-250) fusion protein. 2.

Application

The antibody specificity was assayed by Western blot 5. analysis with the CTGF (aa. 182-250) fusion protein. 6. However, for the first testing, we recommend 1/5000 dilution for ELISA, 1/10000 dilution for Western blot analysis (WB) of recombinant protein, 1/5000 dilution for 7. tissue extracts or cell lysates, 1/100 dilution for 8. immunohistochemistry (IHC) staining on frozen 9. cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

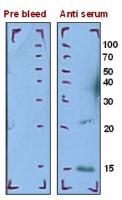
Related Products

- 1. Anti-CTGF mouse polyclonal antibody (GB-10516)
- 2. Anti-CTGF mouse monoclonal antibody (GB-52516)
- 3. Anti-CTGF mouse monoclonal antibody (GB-52550)

Ab dilution	Pre-bleed	Purified-Ab
1:1K	0.165	1.706
1:10K	0.063	1.103
1:100K	0.053	0.354
1:1,000K	0.052	0.102
Titer		~831 K

ELISA Protocol

Antigen is coated on EIA strips at 1 μ g per well. Add 200 μ l of blocking buffer and then wash wells with PBST buffer. Antiserum or peptide specific purified antibody GB-10520 is diluted in series as $10^3 \sim 10^6$ folds and added in separate wells. Incubate antibody for 1hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugate. Wash the plates and add substrate to develop color for 5 min. Read absorbance (ABS) at 650 nm. Amount of color is directly proportional to the amount of antibodies. Antibody titer is defined as >0.1 of ABS of antiserum minus pre-bleed serum.



E. coli derived CTGF (aa. 182-250) fusion protein as test antigen.

Western blotting Protocol

- .. Block with 3%BSA/TBST for 1 hour at RT.
- 2. Wash blot with 0.05% TBST 3 X 15 minutes.
- 3. Add 10000X dilution of antibody.
- 4. Incubate for 1 hour at RT.
- 5. Wash blot with 0.05% TBST 3 X 15 minutes.
 - Add appropriate amount of correct secondary antibody,(goat anti-rabbit antibody conjugated with HRP).
 - Incubate for 1 hour at RT.
- 3. Wash blot 3 X 15 minutes with 0.05% TBST at RT.
- . Add HRP substrate and develop

Storage

It is supplied as protein A affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

- 1.Kubota S., Takigawa M. CCN family genes in the development and differentiation of cartilage tissues. *Clin Calcium.* 16(3):486-92, 2006.
- 2.Grotendorst,G.R., Duncan,M.R. Individual domains of connective tissue growth factor regulate fibroblast proliferation and myofibroblast differentiation. *FASEB J.* 19 (7), 729-738, 2005.
- 3.Brigstock,D.R. Regulation of angiogenesis and endothelial cell function by connective tissue growth factor (CTGF) and cysteine-rich 61(CYR61). *Angiogenesis 5 (3), 153-165, 2002.*