Anti-CTGF [HL2180 [17-73-D6]] Bulk Size Ab02551-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Lambda
Clone Number: HL2180 [17-73-D6]
Alternative Name(s) of Target: Connective Tissue Growth factor; CCN family member 2; Cellular communication network factor 2; Connective tissue growth factor; Hypertrophic chondrocyte-specific protein 24; Insulin-like growth factor-binding protein 8; IBP-8; IGF-binding protein 8; IGFBP-8
UniProt Accession Number of Target Protein: P29279
Published Application(s): WB, ELISA, IHC
Published Species Reactivity: Rabbit, Human
Immunogen: The original version of this antibody was raised by immunizing mice against a peptide representing aa 181-197 of hCTGF corresponding to the hinge region.
Specificity: This antibody binds aa 181-197 of hCTGF corresponding to the hinge region. It was also shown to stain rabbit CTGF in IHC. CTGF is a cysteine-rich, matrix-associated, heparin-binding protein. In vitro, CTGF mediates some of the effects of TGF-beta on skin fibroblasts, such as stimulation of extracellular matrix production, chemotaxis, proliferation and integrin expression. CTGF can promote endothelial cell growth, migration, adhesion and survival and is implicated in endothelial cell function and angiogenesis. CTGF has been implicated in extracellular matrix remodeling in wound healing, scleroderma and other fibrotic processes, as it is capable of up-regulating both matrix metalloproteinases (MMPs) and their inhibitors (TIMPs). Thus, CTGF has the potential to activate both the synthesis and degradation of extracellular matrix.
Application Notes: Proteolytically generated fragments of CTGF that retain functionality have been measured in biological fluids; this monoclonal antibody was designed with the intention to: a) discern between cleaved and uncleaved forms on the basis of a loss of immunoreactivity after cleavage (i.e. aa 187-197). This clone HL2180 [17-73-D6] binds specifically to the hinge region. b) Develop a sandwich ELISA using two mAbs per fragment, where one mAb is the capture antibody and the other is the detector (together with our non-competitive clones Ab02552 (HL2181) and Ab02553 (HL2198) which recognize distinct regions of CTGF. This antibody can be also used to detect CTGF in tissues via immunohistochemistry.
Antibody First Published in:

PMID:

Note on publication:

Product Form

Size: 1 mg Purified antibody in bulk size.
Purification: Protein A affinity purified
Supplied In: PBS only.
Storage Recommendation: Store at 4ºC for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20ºC.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.