Product Information

Anti-CTGF Antibody, Mouse Monoclonal

Clone CTGF-14, Purified from Hybridoma Cell Culture

SAB4200401

Product Description

Monoclonal Anti-CTGF (mouse IgG1 isotype) is derived from the hybridoma CTGF-14 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to an internal region of human CTGF (GeneID: 1490), conjugated to KLH. The corresponding sequence differs by a single amino acid in mouse and rat. The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents (Cat. No. ISO2). The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-CTGF recognizes human CTGF. The antibody may be used in various immunochemical techniques including immunoblotting (~ 38 kDa) and immunoprecipitation. Detection of the CTGF band by immunoblotting is specifically inhibited by the immunizing peptide.

CTGF (connective tissue growth factor), also known as CCN family member 2 (CCN2), is a mitogen secreted by vascular endothelial cells. CTGF has been shown to play a role in developmental regulation of chondrogenesis, osteogenesis and angiogenesis, and in pathological processes, including fibrosis and tumorigenesis. CTGF was also suggested to have an important role in the progression of malignant melanoma and in activation of WNT signaling through LRP6. Certain polymorphisms in the CTGF gene have been linked with a higher incidence of systemic sclerosis.[1-4]

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody Concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze at –20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting

A working concentration of 0.25-0.5 µg/mL is recommended using whole extracts of HEK-293T cells over-expressing CTGF.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

1. 1. Markiewicz, M., et al., *Microcirculation*, **18**: 1-11 (2011).
2. 2. Fonseca, C., et al., *N. Engl. J. Med*., **357**: 1210-1220 (2007).
3. 3. Braig, S., et al., *Br. J. Cancer*, **105**: 231-238 (2011).
4. 4. Rooney, B., et al., *FEBS Lett*., **585**: 531-538 (2011).

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