

Product datasheet for **BM4099**

CCN2 Mouse Monoclonal Antibody [Clone ID: 2154-60]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2154-60
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Frozen Sections: 2 µg/ml (1/500). Immunohistochemistry on Paraffin Embedded Sections: 20 µg/ml (1/50). Microwave pretreatment in citrate buffer is recommended for antigen retrieval. <i>Suggested Positive Control:</i> Human placenta, Rat spleen.
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Recombinant Human CTGF
Specificity:	This antibody detects CTGF. This monoclonal antibody also stains cells in Rat spleen, indicating significant cross reactivity with the corresponding Rat CTGF.
Formulation:	PBS, pH 7.2 State: Purified State: Liquid purified Tissue Culture Supernatant Stabilizer: None Preservative: 0.05% Kathon
Concentration:	1.0 mg/ml
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	connective tissue growth factor



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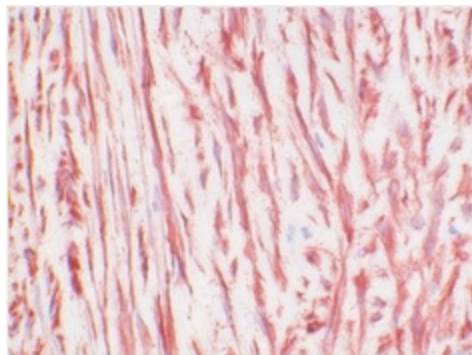
Database Link: [Entrez Gene 1490 Human P29279](#)

Background: Connective Tissue Growth Factor (CTGF) is an immediate early growth responsive gene that has been shown to be a downstream mediator of TGFbeta actions in fibroblasts and vascular endothelial cells. CTGF promotes cell adhesion and mitogenesis in both fibroblasts and endothelial cells and stimulates cell migration in fibroblasts. The localization of CTGF in angiogenic tissues, as well as in atherosclerotic plaques, suggests a possible role in the regulation of vessel growth during development, wound healing, and vascular disease. CTGF is expressed in myocardial infarct tissue following acute myocardial infarction.

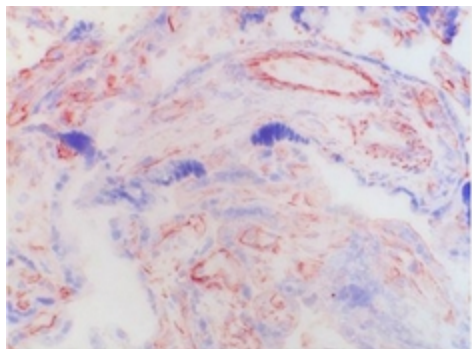
Synonyms: CCN2, HCS24, IGFBP8, Connective tissue growth factor, IGF-binding protein 8,IBP8

- Note:**
- Protocol: **Protocol with frozen, ice-cold acetone-fixed sections:**
- The whole procedure is performed at room temperature
1. Wash in PBS
 2. Block endogenous peroxidase
 3. Wash in PBS
 4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
 5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
 6. Wash in PBS
 7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
 8. Wash in PBS
 9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
 10. Wash in PBS
 11. Counterstain with Mayer's hemalum
- Protocol with formalin-fixed, paraffin-embedded sections:**
- The whole procedure is performed at room temperature
1. Deparaffinize and rehydrate tissue section
 2. Place slide in a cuvette with 250ml 0.01M citrate buffer, pH 6.0
 3. Heat slide in a microwave oven for 2 x 7min. at 700Watt
 4. Leave slide in the buffer for 20min for cooling
 5. Wash in distilled water
 6. Block endogenous peroxidase
 7. Wash in PBS
 8. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
 9. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
 10. Wash in PBS
 11. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
 12. Wash in PBS
 13. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
 14. Wash in PBS
 15. Counterstain with Mayer's hemalum

Product images:



CTGF antibody staining of Frozen Human umbilical cord Section (Clone 2154-60)



CTGF antibody staining of Frozen Human Placenta Section (Clone 2154-60)