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Product Datasheet

Rat CTGF protein, His and GST tag (active)
GTX03797-PRO

Artikelname	Rat CTGF protein, His and GST tag (active)
Artikelnummer	GTX03797-PRO
Hersteller Artikelnummer	GTX03797-pro
Alternativnummer	GTX03797-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA, WB
Spezies Reaktivität	Rat
NCBI	64032
UniProt	Q9R1E9
Puffer	Reconstitute with 10mM PBS pH7.4 to 0.1-1.0mg/ml. Do not vortex. Lyophilized from PBS pH7.4, containing 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Formulierung	Lyophilized powder
Sequenz	N-terminal His-Tag, Gln25~Ala347 (NP_071602.1)

Anwendungsbeschreibung	Connective Tissue Growth Factor (CTGF), also known as CCN2 is a matricellular protein of the CCN family of extracellular matrix-associated heparin-binding proteins. CTGF has important roles in many biological processes, including cell adhesion, migration, proliferation, angiogenesis, skeletal development, and tissue wound repair, and is critically involved in fibrotic disease and several forms of cancers. Besides, Actin Beta (ACTb) has been identified as an interactor of CTGF, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat CTGF and recombinant rat ACTb. Briefly, CTGF were diluted serially in PBS, with 0. 01% BSA (pH 7. 4). Duplicate samples of 100 µl were then transferred to ACTb-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-CTGF pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of of CTGF and ACTb was in a dose dependent manner. To measure the effect of CTGF on cell adhesion, a general procedure performance as follows: 100 µl PBS containing recombinant CTGF were incubated overnight at 4C in 96-well ELISA plates. Wells were blocked with 200µl PBS containing 3% BSA and then incubated for 1h at 37 Cwith 100 µl PBS containing approximately 5x104 3T3 cells. Adherent cells were then fixed for 15 min with 5% formaldehyde and non-adherent cells were removed by washing each well three times with PBS. The remaining cells were incubated with 0. 5% cristal violet for 10mins then counted at high magnification (*400) randomly.