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## Product Datasheet

### Human MAGP1 protein, His tag, Unconjugated GTX00174-PRO

|                          |                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Artikelname              | Human MAGP1 protein, His tag, Unconjugated                                                                                                                                  |
| Artikelnummer            | GTX00174-PRO                                                                                                                                                                |
| Hersteller Artikelnummer | GTX00174-pro                                                                                                                                                                |
| Alternativnummer         | GTX00174-PRO-10                                                                                                                                                             |
| Hersteller               | GeneTex                                                                                                                                                                     |
| Kategorie                | Proteine/Peptide                                                                                                                                                            |
| Applikation              | FA                                                                                                                                                                          |
| Spezies Reaktivität      | Human                                                                                                                                                                       |
| Konjugation              | Unconjugated                                                                                                                                                                |
| NCBI                     | <a href="#">4237</a>                                                                                                                                                        |
| UniProt                  | <a href="#">P55001</a>                                                                                                                                                      |
| Puffer                   | Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300. |
| Expression System        | HEK293 cells                                                                                                                                                                |
| Formulierung             | Lyophilized powder                                                                                                                                                          |
| Sequenz                  | N-terminal His-Tag, Leu6~Val162 (NP_001128719.1)                                                                                                                            |

Anwendungsbeschreibung

Microfibrillar-associated protein 2 (MFAP2) is an O-glycosylated protein which excreted to the extracellular space and the extracellular matrix. MFAP2 combine biglycan and elastin to form a ternary complex. MFAP2 plays a key role in the support and distensibility of the juxtacanalicular region of these collector channels. It also can inhibit LTB-1 binding to fibrillin-1, stimulate the phosphorylation of Smad2, and thereby mediate the subsequent extracellular deposition of latent TGFbeta. Besides, Fibrillin 1 (FBN1) has been identified as an interactor of MFAP2, thus a binding ELISA assay was conducted to detect the interaction of recombinant human MFAP2 and recombinant human FBN1. Briefly, MFAP2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to FBN1-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-MFAP2 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 MFAP2 and FBN1 was in a dose dependent manner.