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Product Datasheet

Mouse COL6A1 protein, His tag, Unconjugated GTX00316-PRO

Article Name	Mouse COL6A1 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00316-PRO
Supplier Catalog Number	GTX00316-pro
Alternative Catalog Number	GTX00316-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Mouse
Conjugation	Unconjugated
NCBI	12833
UniProt	Q04857
Buffer	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	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Ser624~Lys800 (NP_034063.1)

Application Notes

Collagen alpha-1(VI) chain (COL6a1) is a protein that in humans, the collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagens are extracellular matrix proteins and have a triple-helical domain as their common structural element. Besides, Platelet-derived growth factor subunit A (PDGFA) has been identified as an interactor of COL6A1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human COL6a1 and recombinant human PDGFA. Briefly, COL6a1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to PDGFA-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-COL6a1 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 COL6a1 and PDGFA was in a dose dependent manner.