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Product Datasheet

Mouse COL6A1 protein, His tag, Unconjugated GTX00317-PRO

Article Name	Mouse COL6A1 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00317-PRO
Supplier Catalog Number	GTX00317-pro
Alternative Catalog Number	GTX00317-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, Asn82~Phe212 (NP_034063.1)

Application Notes

The collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagen VI is a major structural component of microfibrils. The basic structural unit of collagen VI is a heterotrimer of the $\alpha 1(VI)$, $\alpha 2(VI)$, and $\alpha 3(VI)$ chains. The protein encoded by COL6a1 gene is the $\alpha 1$ subunit of type VI collagen ($\alpha 1(VI)$ chain). Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy. Besides, Retbindin (RTBDN) has been identified as an interactor of COL6a1, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse COL6a1 and recombinant mouse RTBDN. Briefly, COL6a1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ l were then transferred to RTBDN-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 μ l stop solution to the wells and read at 450nm immediately. The binding activity of COL6a1 and RTBDN was in a dose dependent manner.