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## Product Datasheet

### Mouse Fibrillin 1 protein, His tag, Unconjugated GTX00048-PRO

Article Name	Mouse Fibrillin 1 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00048-PRO
Supplier Catalog Number	GTX00048-pro
Alternative Catalog Number	GTX00048-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Mouse
Conjugation	Unconjugated
NCBI	<a href="#">14118</a>
UniProt	<a href="#">Q61554</a>
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, Leu457~Asp634 (NP_032019.2)

Application Notes

Fibrillin 1 (FBN1) is a 230-kb gene with 65 coding exons that encode a 2,871-amino-acid long proprotein called profibrillin which is proteolytically cleaved near its C-terminus by the enzyme furin convertase to give fibrillin-1, a member of the fibrillin family, and the 140-amino-acid long protein hormone asprosin. FBN1 is a large, extracellular matrix glycoprotein that serves as a structural component of 10-12nm calcium-binding microfibrils. These microfibrils provide force bearing structural support in elastic and nonelastic connective tissue throughout the body. Besides, Fibulin 2 (FBLN2) has been identified as an interactor of FBN1, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse FBN1 and recombinant mouse FBLN2. Briefly, FBN1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100  $\mu$ l were then transferred to FBLN2-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-FBN1 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  $\mu$ l stop solution to the wells and read at 450nm immediately. The binding activity of FBN1 and FBLN2 was in a dose dependent manner.