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Product Datasheet

Human FABP3 protein, His tag, Unconjugated GTX00275-PRO

Article Name	Human FABP3 protein, His tag, Unconjugated
Biozol Catalog Number	GTX00275-PRO
Supplier Catalog Number	GTX00275-pro
Alternative Catalog Number	GTX00275-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	2170
UniProt	P05413
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	Full length protein, N-terminal His-Tag, Met1~Ala133 (NP_004093.1)

Application Notes

Fatty Acid Binding Protein 3, Muscle And Heart (FABP3) also known as mammary-derived growth inhibitor is a protein that in humans is encoded by the FABP3 gene. FABP3 is a small cytoplasmic protein (15kDa) released from cardiac myocytes following an ischemic episode. It is involved in active fatty acid metabolism where it transports fatty acids from the cell membrane to mitochondria for oxidation. Besides, Fatty Acid Binding Protein 3, Muscle And Heart (FABP3) has been identified as an interactor of SOD1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human FABP3 and recombinant human SOD1. Briefly, FABP3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to SOD1-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-FABP3 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 FABP3 and SOD1 was in a dose dependent manner.