Certificate of Analysis & Data Sheet

Catalog Number: 230-30146

RayBiotech
Empowering your proteomics

Recombinant Sus scrofa FABP3

Source

Species	Sus scrofa (Pig)
Accession Number	O02772
Gene Symbol	FABP3
Expressed Region	Val2-Ala133
Synonyms	Fatty acid-binding protein, heart, Fatty Acid Binding Protein 3, Mammary-Derived Growth Inhibitor, Fatty Acid Binding Protein 3, Muscle And Heart, Heart-Type Fatty Acid-Binding Protein, Muscle Fatty Acid-Binding Protein, Fatty Acid Binding Protein 11, FABP11, H-FABP, M-FABP, MDGI, Fatty Acid Binding Protein 3, Muscle And Heart (Mammary-Derived Growth Inhibitor), Fatty Acid-Binding Protein 3, O-FABP.

Preparation

Expression System	Human embryonic kidney 293 (HEK293) cells
Tag	N-terminal his-tag
Purification	His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
Purity	>95%
Purity Determined By	SDS-PAGE under reducing conditions and visualized by Coomassie blue staining
Molecular Weight	Recombinant protein product has a calculated molecular mass of 15 kDa. Due to the abundant glycosylation, it migrates as approximately 18 kDa extra protein band (beside 15 kDa band) in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions. After deglycosylation under native and denature conditions, the protein presented as one single 15 kDa band. See deglycosylation analysis in SDS-PAGE image.

Protein Specifications

Format	Lyophilized powder
Formulation	Lyophilized from a 0.2 um filtered solution in PBS
Concentration	Determined by BCA protein assay
Recommended Applications	Functional Assay, Protein-protein Interaction, Post-translational Modifications, ELISA, EIA, Western Blotting, Dot Blotting, Immunoprecipitation, Protein Array, etc.
Reconstitution	Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5 - 1.0 mg/mL with sterile deionized water.

SDS-PAGE Image

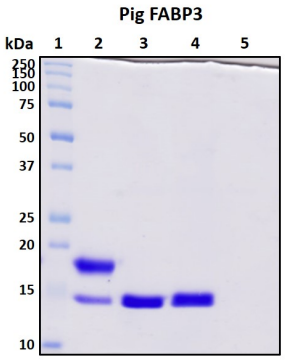

Figure 1. Deglycosylation of purified recombinant proteins. The same amount of purified proteins were untreated (Lane 2) or treated with protein deglycosylation enzymes under native (Lane 3) or reducing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift of the protein to produce one major band at the expected size, thus indicating that the untreated recombinant protein (Lane 2) was glycosylated.
Lane 1: protein standard ladder (kDa).
Lane 2: untreated protein under reducing conditions.
Lane 3: treated protein with deglycosylation enzymes under native conditions.
Lane 4: treated protein with deglycosylation enzymes under denature conditions.
Lane 5: deglycosylation mixture only without target proteins.

Shipping

Ice packs

Storage/Stability

Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C. For long term storage, it is recommended to store desiccated below -20 °C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20 °C. For long term storage, it is recommended to make appropriate aliquots and store at -80 °C. Avoid repeated freeze-thaw cycles.