



Recombinant Protein Technical Manual

Recombinant Human FABP3 Protein (His Tag)

RPES2049

Product Data:

Product SKU: RPES2049

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P05413

Protein Information:

Molecular Mass: 17.0 kDa

AP Molecular Mass: 15 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 6.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Fatty Acid-Binding Protein Heart; Fatty Acid-Binding Protein 3; Heart-Type Fatty Acid-Binding Protein; H-FABP; Mammary-Derived Growth Inhibitor; MDGIMuscle Fatty Acid-Binding Protein; M-FABP; FABP3; FABP11; MDGI;H-FABP;O-FABP

Immunogen Information:

Sequence: Val2-Ala133

Background:

Fatty Acid Binding Protein 3 (FABP3) is a small cytoplasmic protein (15 kDa) that is released from cardiac myocytes following an ischemic episode. Like the nine other distinct FABPs that have been identified, FABP3 is involved in active fatty acid metabolism where it transports fatty acids from the cell membrane to mitochondria for oxidation. FABPs are divided into at least three distinct types, namely the hepatic-, intestinal- and cardiac-types. They form 145 kDa proteins and are thought to participate in the uptake, intracellular metabolism and/or transport of long-chain fatty acids. They may also be responsible in the modulation of cell growth and proliferation. The FABP3 gene contains four exons and its function is to arrest growth of mammary epithelial cells. This gene is also a candidate tumor suppressor gene for human breast cancer. FABP3 is a sensitive biomarker for myocardial infarction and can be detected in the blood within one to three hours of onset of pain.