# Active Heart-type Fatty Acid Binding Protein (H-FABP)

*Catalog#:PXH12633*

## 概述（Summary）

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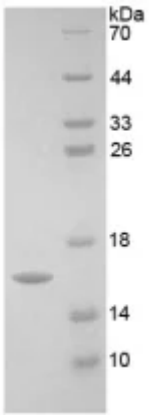
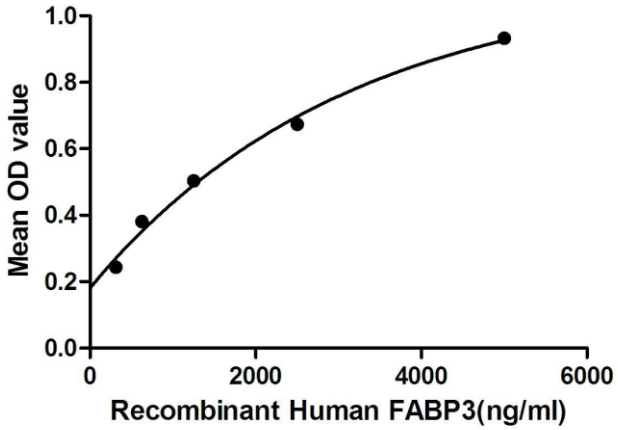
| **别称（Alternative Names）** | MDGI; FABP11; H-FABP; O-FABP; Hfabp; FABP3; Fatty Acid Binding Protein 3, Muscle And Heart; Mammary Derived Growth Inhibitor; Fatty Acid Binding Protein 11; Muscle fatty acid-binding protein; Heart-ty |
| **纯度（Purity）** | Greater than 95% as determined by reducing SDS-PAGE. |
| **内毒素（Endotoxin level）** | Please contact with the lab for this information |
| **蛋白构建（Construction）** | 【Met1-Ala133】 |
| **Accession #** | P05413 |
| **表达宿主（Host）** | - |
| **种属（Species）** | Homo sapiens (Human) |
| **预测分子量（Predicted MW）** | 16.1 kDa |
| **制剂（Form）** | Lyophilized from a 0.2 μm filtered solution of 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300. |
| **运输方式（Shipping）** | The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below. |
| **稳定性&储存（Stability &Storage）** | 12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles. |
| **复溶（Reconstitution）** | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |
| **背景介绍（References）** | FABP are thought to play a role in the intracellular transport of long-chain fatty acids and their acyl-CoA esters. |

## 电泳图（SDS-PAGE image）




Greater than 95% as determined by reducing SDS-PAGE.

## 活性图（Bioactivity image）




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 100µL were then transferred to SOD1-coated microtiter wells and incubated for 2h at 37℃. 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 37℃. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of FABP3 and SOD1 was shown in Figure 1, and this effect was in a dose dependent manner. Figure. The binding activity of FABP3 with SOD1.

## 注意事项（Note）

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