

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

SBPB107Hu01

Homo sapiens (Human)

Buffer Formulation

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA,
1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Traits

Freeze-dried powder

Purity

> 95%

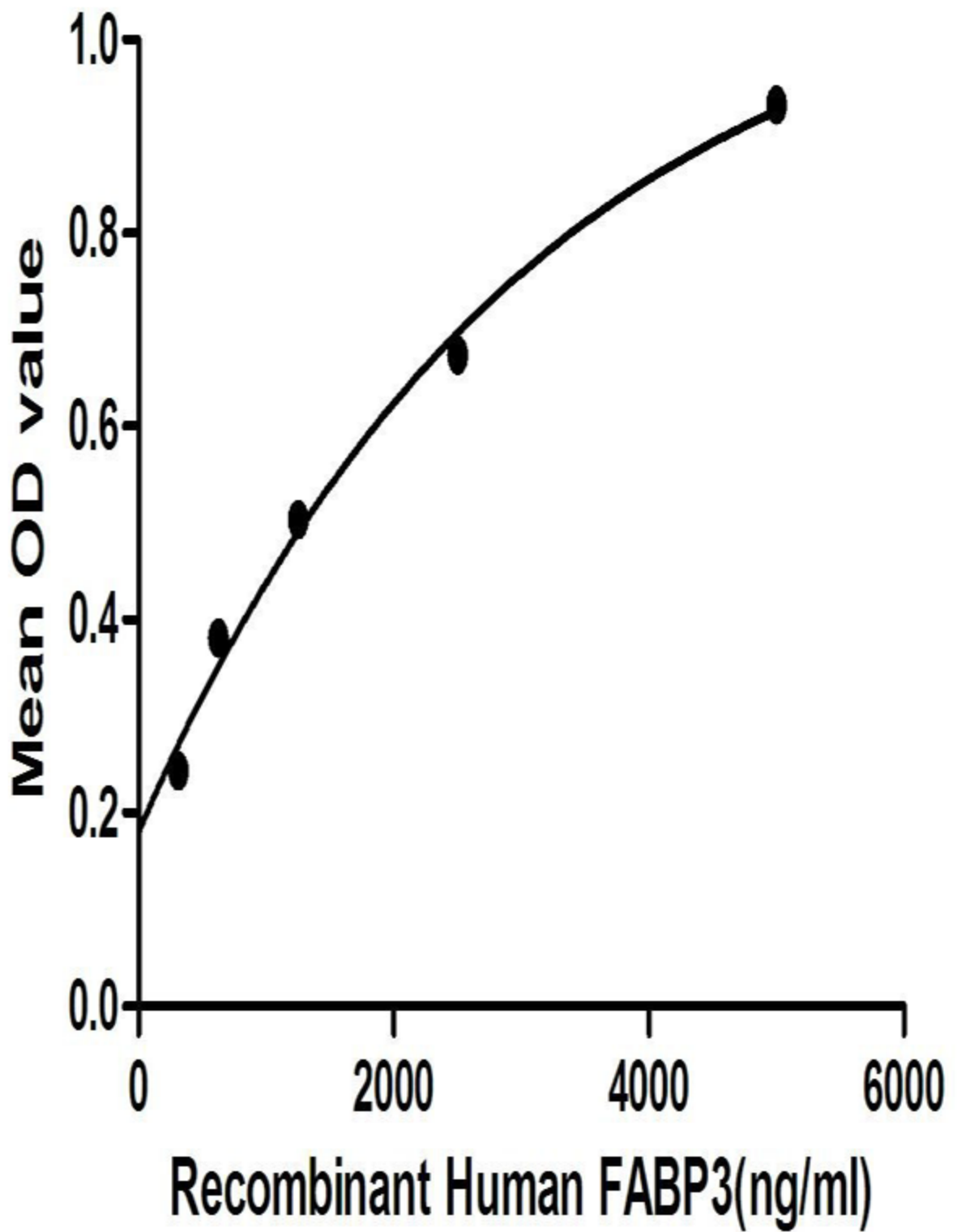
Isoelectric Point

6.6

Applications

Cell culture; Activity Assays.

ACTIVITY TEST



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 μ L were then transferred to SOD1-coated microtiter wells and incubated for 2h at 37°C. 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°C. Finally, add 50 μ L 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.

USAGE

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

STORAGE

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

STABILITY

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Image

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.