

# Bioassayplus Inc

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## Certificate of Analysis

**Important note:** Centrifuge before opening to ensure complete recovery of vial contents

**Product name:** Recombinant human heart fatty acid binding protein

**Catalog #:** rFABP

**Description:** Based on the journal report, human heart-fatty acid binding protein is a sensitive biomarker detected in the blood within 1 to 3 hours of chest pain for myocardial infarction. It is 20 times more specific to cardiac muscle than myoglobin.

Testing for human heart-fatty acid binding protein is now used with troponin together to identify myocardial infarction and acute coronary syndrome with chest pain. Due to the high concentration of human heart-fatty acid binding protein in myocardium, human heart-fatty acid binding protein measured with troponin shows increased sensitivity of 20.6% over troponin at 3-6 hours after chest pain. It rapidly releases into plasma after 60 minutes of myocardial injury, clinical study showed that measuring human heart-fatty acid binding protein in combination with troponin increased the diagnostic accuracy and specificity to exclude the patients without myocardial infarction at 3-6 hours early time after chest pain.

rFABP was derived from a full length human heart-fatty acid binding protein, it was expressed and purified from *E. coli* and a 6 x his tag is linked to its C- terminus, it migrated at 17kDa with dimer on SDS-PAGE. This recombinant protein is used as a tool in the quality control for human heart-fatty acid binding protein test product to quantitate its sensitivity.

**Source :** *E. coli*

**Format :** Purified, Liquid

**Purification:** >95% pure (12% SDS-PAGE, Coomassie blue stain).

**Concentration:** 0.6mg/ml

**Buffer:** PBS and 0.05% NaN<sub>3</sub>

**Applications:** Immunoassay

**Storage:** Upon receipt, store at -20°C. Avoid multiple freeze/thaw cycles.

