# abcam

## Product datasheet

## Recombinant Human FBP2 protein ab137162

## 1 Image

**Description** 

Product name Recombinant Human FBP2 protein

Purity > 90 % SDS-PAGE.

ab137162 was purified using conventional chromatography.

Expression system Escherichia coli

Accession O00757

Protein length Full length protein

Animal free No

**Nature** Recombinant

**Species** Human

Sequence MGSSHHHHHH SSGLVPRGSH MGSMTDRSPF

ETDMLTLTRY VMEKGRQAKG TGELTQLLNS MLTAIKAISS

AVRKAGLAHL YGIAGSVNVT GDEVKKLDVL

SNSLVINMVQ SSYSTCVLVS EENKDAIITA KEKRGKYVVC FDPLDGSSNI DCLASIGTIF AIYRKTSEDE PSEKDALQCG

RNIVAAGYAL YGSATLVALS TGQGVDLFML

DPALGEFVLV EKDVKIKKKG KIYSLNEGYA KYFDAATTEY

VQKKKFPEDG SAPYGARYVG SMVADVHRTL

VYGGIFLYPA NQKSPKGKLR LLYECNPVAY IIEQAGGLAT

TGTQPVLDVK PEAIHQRVPL ILGSPEDVQE

YLTCVQKNQA GS

Predicted molecular weight 39 kDa including tags

Amino acids 1 to 339

Tags His tag N-Terminus

#### **Specifications**

Our Abpromise guarantee covers the use of ab137162 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** Mass Spectrometry

SDS-PAGE

Mass spectrometry MALDI-TOF

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#### **Preparation and Storage**

#### Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.02% DTT, 0.32% Tris HCI, 10% Glycerol (glycerin, glycerine), 0.88% Sodium

chloride

#### **General Info**

**Function** Catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate in the presence of

divalent cations and probably participates in glycogen synthesis from carbohydrate precursors,

such as lactate.

Tissue specificity

Expressed in skeletal muscle (at protein level).

**Pathway** 

Carbohydrate biosynthesis; gluconeogenesis.

Sequence similarities

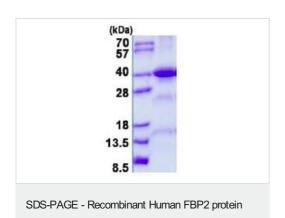
Belongs to the FBPase class 1 family.

**Cellular localization** 

Cell junction. Cytoplasm. Nucleus. Cytoplasm, myofibril, sarcomere, Z line. In neonatal cardiomyocytes, distributed throughout the cytosol, accumulating in the intercalated disks which occur at the Z line of cardiomyocytes and connect adjacent cells, and also located in the nucleus; dissociates from the Z line following an increase in cytosolic Ca(2+) concentration (By similarity). In muscle precursor cells, localizes predominantly to the nucleus and to a lesser extent to the cytoplasm at the proliferative phase, while mainly localizing to the cytoplasm at the differentiation phase (By similarity). Colocalizes with ALDOA and alpha-actinin on both sides of the Z line of skeletal muscle; dissociates rapidly from the Z line following an increase in cytosolic Ca(2+) concentration.

#### **Images**

(ab137162)



15% SDS-PAGE analysis of ab137162 (3µg)

 $\textbf{Please note:} \ \ \textbf{All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"}$ 

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