

Human FBP2 antibody

Catalog Number: ATGA0235

PRODUCT INFORMATION

Catalog number

ATGA0235

Clone No.

AT1E11

Product type

Monoclonal Antibody

UnitProt No.

O00757

NCBI Accession No.

NP_003828

Alternative Names

Fructose-16-bisphosphatase isozyme 2, Fructose-1,6-bisphosphatase isozyme 2

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human FBP2 (1-339aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB

Usage

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

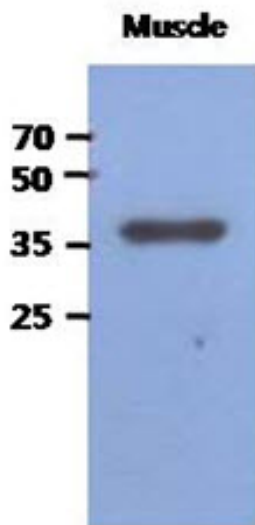
FBP2 (Fructose-1, 6-bisphosphatase isozyme 2) is a 339 amino acid protein. FBP2 belongs to the FBPase class 1 family. The hydrolysis of fructose-1, 6-bisphosphate to fructose-6-phosphate is a key reaction of carbohydrate metabolism. The enzyme that catalyzes this reaction appears to be present in all forms of living organisms. FBPase is encoded by two genes, FBP1 and FBP2, which express the liver and muscle isoforms, respectively. FBPase is regulated by AMP inhibition in most species. Inhibition of FBPase by AMP affects the turnover of bound substrate and not its affinity for substrate.

General References

- Dzugaj, A., et al. (1980) *Biochim Biophys Acta* 614: 407-412.
- Marcus, F., et al. (1987) *Arch Biol Med Exp* 20: 371-378.
- Matsuura, T., et al. (2002) *Mol Genet Metab* 76: 207-210.

DATA

Western blot analysis (WB)



The cell lysate of mouse muscle (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human FBP2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.