

Human Muscle Phosphofructokinase/PFKM antibody

Catalog Number: ATGA0239

PRODUCT INFORMATION

Catalog number

ATGA0239

Clone No.

AT2F11

Product type

Monoclonal Antibody

UnitProt No.

P08237

NCBI Accession No.

NP_000280

Alternative Names

6-Phosphofructokinase muscle type, GSD7, PFK-1, PFK1, PFKA, PFKX, 6-Phosphofructokinase, muscle type 6 Phosphofructokinase Muscle Type, EC 2.7.1.11, MGC8699, PFKL, PFKM, PFKP, Phosphofructo 1 Kinase Isozyme A, Phosphofructokinase 1, Phosphofructokinase M, Phosphofructokinase, muscle, Phosphofructokinase, muscle type, Phosphofructokinase, polypeptide X, Phosphohexokinase

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 PFKM (1-780aa) purified from E. coli

Isotype

IgG2a kappa

Purification Note

By protein-A 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.

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Storage

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

PFKM (phosphofructokinase, muscle) is a regulatory glycolytic enzyme that convert fructose 6-phosphate and ATP into fructose 1, 6-bisphosphate (through PFK-1), fructose 2, 6-bisphosphate (through PFK-2) and ADP. Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. Mutations in this gene have been associated with glycogen storage disease type VII, also known as Tarui disease.

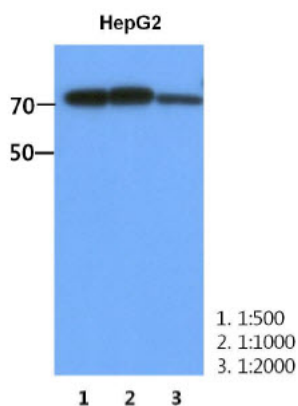
General References

Martinez-Costa OH., et al. (2007) FEBS Lett. 581(16):3033-8.

Kim JW., et al. (2004) Mol Cell Biol. 24(13):5923-36.

DATA

Western blot analysis (WB)



The HepG2 cell lysates (30ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PFKM antibody (1:500~2000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.