

Fructose 6 Phosphate Kinase (PFKM) Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP8137b**Specification****Fructose 6 Phosphate Kinase (PFKM) Antibody (C-term) Blocking peptide - Product Information**Primary Accession [P08237](#)**Fructose 6 Phosphate Kinase (PFKM) Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 5213**Other Names**

ATP-dependent 6-phosphofructokinase, muscle type
{ECO:0000255|HAMAP-Rule:MF_03184},
ATP-PFK
{ECO:0000255|HAMAP-Rule:MF_03184},
PFK-M, 27111
{ECO:0000255|HAMAP-Rule:MF_03184},
6-phosphofructokinase type A,
Phosphofructo-1-kinase isozyme A, PFK-A,
Phosphohexokinase
{ECO:0000255|HAMAP-Rule:MF_03184},
PFKM, PFKX

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8137b](/product/products/AP8137b) was selected from the C-term region of human PFKM. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not

Fructose 6 Phosphate Kinase (PFKM) Antibody (C-term) Blocking peptide - Background

Phosphofructokinase catalyzes the irreversible conversion of fructose 6 phosphate to fructose 1,6 biphosphate. Mammalian PFK is a complex isozyme consisting of 3 subunits: muscle (M), liver (L), and platelet (P). Only M type PFK isozyme is expressed in mature muscle, while erythrocytes contain both L and M subunits. Defects in PFKM are the cause of glycogen storage disease type 7 (GSD7), also known as Tarui disease.

Fructose 6 Phosphate Kinase (PFKM) Antibody (C-term) Blocking peptide - References

Howard, T.D., et al., Genomics 34(1):122-127 (1996). Vasconcelos, O., et al., Proc. Natl. Acad. Sci. U.S.A. 92(22):10322-10326 (1995). Raben, N., et al., J. Biol. Chem. 268(7):4963-4967 (1993). Yamasaki, T., et al., Gene 104(2):277-282 (1991). Sharma, P.M., et al., J. Biol. Chem. 265(16):9006-9010 (1990).

for use in diagnostic or therapeutic procedures.

Fructose 6 Phosphate Kinase (PFKM) Antibody (C-term) Blocking peptide - Protein Information

Name PFKM

Synonyms PFKX

Function

Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate by ATP, the first committing step of glycolysis.

Cellular Location

Cytoplasm
{ECO:0000255|HAMAP-Rule:MF_03184}.

Fructose 6 Phosphate Kinase (PFKM) Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)