10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Fructose 6 Phosphate Kinase Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP8137a

Specification

Fructose 6 Phosphate Kinase Antibody (N-term) Blocking peptide - Product Information

Primary Accession P08237

Fructose 6 Phosphate Kinase Antibody (N-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 AP8137a was selected from the N-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 for use in diagnostic or therapeutic procedures.

Fructose 6 Phosphate Kinase Antibody (N-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}.

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

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

- Blocking Peptides

Fructose 6 Phosphate Kinase Antibody (N-term) Blocking peptide - Images

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

Phosphofructokinase catalyzes the irreversible conversion of fructose 6 phosphate to fructose 1,6 bisphosphate. 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 Antibody (N-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).