

# Fructose 6 Phosphate Kinase (PFKM) Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8137b

## Product Information

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<b>Application</b>	WB, IHC-P, IF, E
<b>Primary Accession</b>	<a href="#">P08237</a>
<b>Other Accession</b>	<a href="#">Q60HD9</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Monkey
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB3908
<b>Calculated MW</b>	85183
<b>Antigen Region</b>	746-776

## Additional Information

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<b>Gene ID</b>	5213
<b>Other Names</b>	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
<b>Target/Specificity</b>	This Fructose 6 Phosphate Kinase (PFKM) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 746-776 amino acids from the C-terminal region of human Fructose 6 Phosphate Kinase (PFKM).
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	Fructose 6 Phosphate Kinase (PFKM) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## 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}.

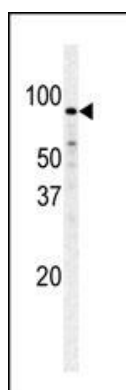
## Background

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.

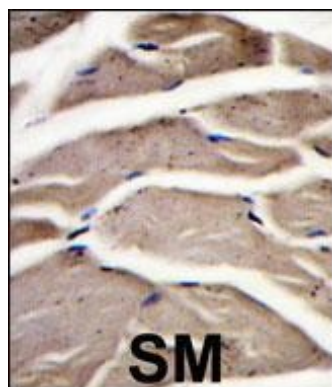
## References

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).

## Images

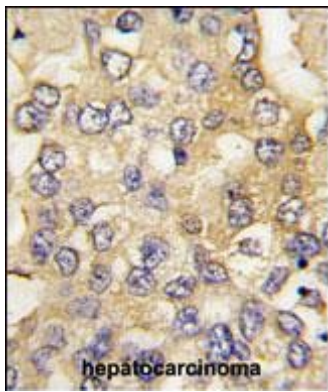


Western blot analysis of PFKM polyclonal antibody (Cat. #AP8137b) in Hela cell line lysate. PFKM(arrow) was detected using the purified Pab.

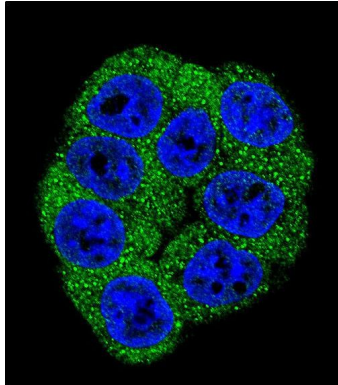


Formalin-fixed and paraffin-embedded human skeletal muscle reacted with PFKM Antibody (C-term)(Cat.#AP8137b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Formalin-fixed and paraffin-embedded human



hepatocarcinoma tissue reacted with PFKM antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of Fructose 6 Phosphate Kinase (PFKM) Antibody(C-term)(Cat#AP8137b) with HeLa cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.