

For Research Use Only

# PFKM Recombinant antibody

Catalog Number: 84281-5-RR



## Basic Information

<b>Catalog Number:</b> 84281-5-RR	<b>GenBank Accession Number:</b> BC021203	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5213	<b>CloneNo.:</b> 241598B2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P08237	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:300-1:1200 IF/ICC 1:250-1:1000
<b>Isotype:</b> IgG	<b>Full Name:</b> phosphofructokinase, muscle	
<b>Immunogen Catalog Number:</b> AG30840	<b>Observed MW:</b> 75-85 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** HEK-293 cells, mouse skeletal muscle tissue, PC-3 cells, Raji cells

**IHC :** mouse skeletal muscle tissue,

**IF/ICC :** HeLa cells, HepG2 cells

## Background Information

PFKM, also named as GSD7, PFK-1, PFK-M and PFKX, belongs to the phosphofructokinase family and two domains subfamily. PFKM catalyzes the reaction: ATP + D-fructose 6-phosphate = ADP + D-fructose 1,6-bisphosphate. It is a key regulatory enzyme in glycolysis. Defects in PFKM cause glycogen storage disease type 7 (GSD7). PFKM has three isoforms with molecular weights of 85, 82, and 93 kDa.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

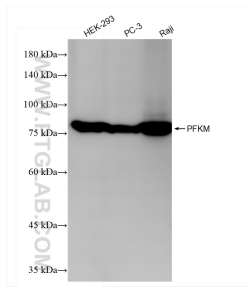
For technical support and original validation data for this product please contact:

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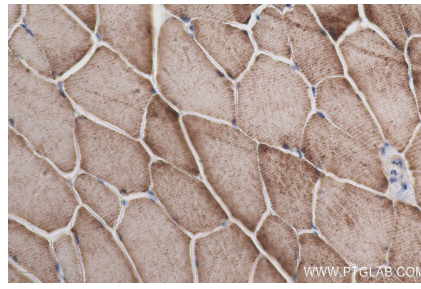
E: proteintech@ptglab.com  
W: ptglab.com

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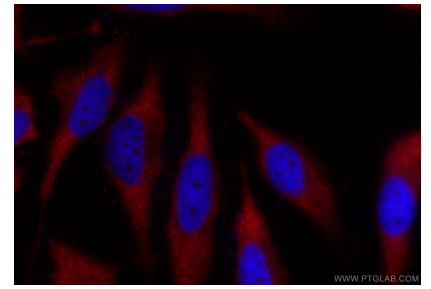
## Selected Validation Data



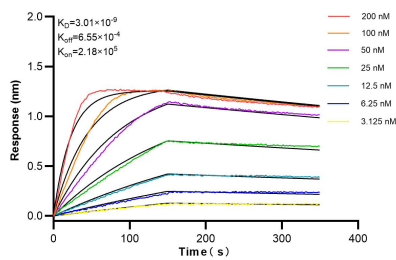
Various lysates were subjected to SDS PAGE followed by western blot with 84281-5-RR (PFKM antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 84281-5-RR (PFKM antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PFKM antibody (84281-5-RR, Clone: 241598B2) at dilution of 1:500 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).



Biolayer interferometry (BLI) kinetic assays of 84281-5-RR against Human PFKM were performed. The affinity constant is 3.01 nM.