

For Research Use Only

# PFKL Monoclonal antibody

Catalog Number: 68385-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 68385-1-Ig	<b>GenBank Accession Number:</b> BC008964	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5211	<b>CloneNo.:</b> 1H2G2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P17858	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Full Name:</b> phosphofructokinase, liver	
<b>Immunogen Catalog Number:</b> AG8250	<b>Calculated MW:</b> 85 kDa	
	<b>Observed MW:</b> 85 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b>  <b>WB :</b> LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue  <b>IHC :</b> human lung cancer tissue, human liver tissue, human ovary tumor tissue, mouse liver tissue  <b>IF/ICC :</b> HuH-7 cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> Human, Mouse, Rat, Rabbit, Pig	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

PFKL (6-phosphofructokinase, liver type) is also named as PFK-B and belongs to the phosphofructokinase family. The PFKL gene encodes the liver isoform of phosphofructokinase (PFK) (ATP: D-fructose-6-phosphate-1-phosphotransferase). PFK catalyzes the irreversible conversion of fructose-6-phosphate to fructose-1,6-bisphosphate and is a key regulatory enzyme in glycolysis. In human beings, PFK exists as a system of three subunits: these are the muscle(PFKM), liver(PFKL), and platelet(PFKP) PFKs (PMID: 2139864). It has 2 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Stephanie Zur Nedden	39332493	Metabolism	WB
Xiaoqing Zhang	38987688	BMC Cardiovasc Disord	WB

## Storage

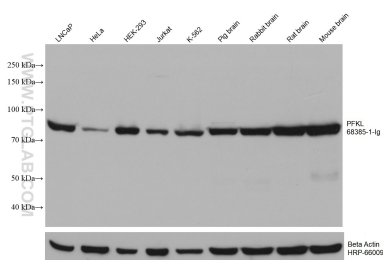
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

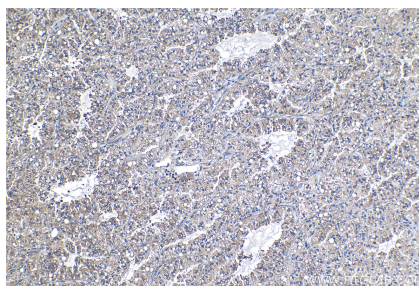
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

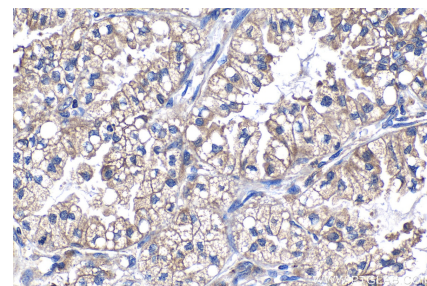
## Selected Validation Data



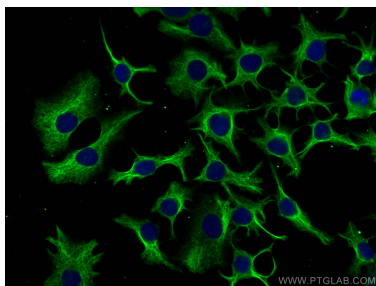
Various lysates were subjected to SDS PAGE followed by western blot with 68385-1-Ig (PFKL antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



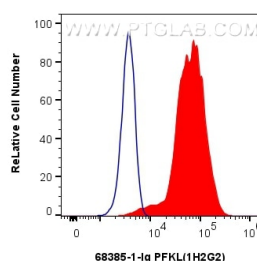
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 68385-1-Ig (PFKL antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



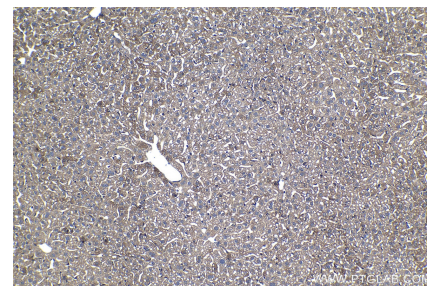
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 68385-1-Ig (PFKL antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



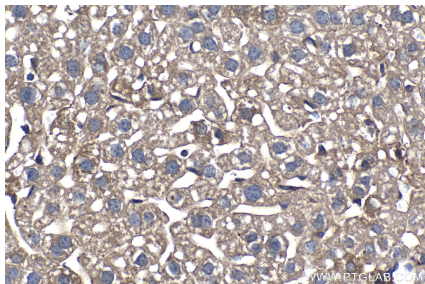
Immunofluorescent analysis of (-20°C Methanol) fixed HuH-7 cells using PFKL antibody (68385-1-Ig, Clone: 1H2G2) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



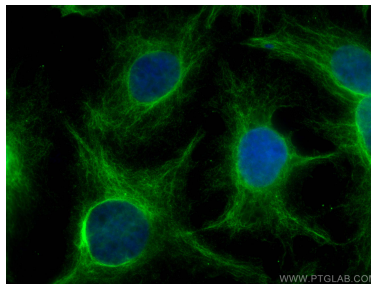
1x10<sup>6</sup> HEK-293 cells were intracellularly stained with 0.8 ug PFKL Monoclonal antibody (68385-1-Ig, Clone:1H2G2) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.8 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 68385-1-Ig (PFKL antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 68385-1-Ig (PFKL antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HuH-7 cells using PFKL antibody (68385-1-Ig, Clone: 1H2G2) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).