

For Research Use Only

# PFKFB3 Polyclonal antibody

Catalog Number: 13763-1-AP

Featured Product

132 Publications



## Basic Information

### Catalog Number:

13763-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4744

### GenBank Accession Number:

BC040482

### GeneID (NCBI):

5209

### UNIPROT ID:

Q16875

### Full Name:

6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3

### Calculated MW:

520 aa, 60 kDa

### Observed MW:

58 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat

**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 thymus tissue, mouse heart tissue, A431 cells, HeLa cells, Jurkat cells, mouse spleen tissue

**IP**: mouse spleen tissue,

**IHC**: human liver cancer tissue, human kidney tissue, human liver tissue

**IF/ICC**: HepG2 cells,

## Background Information

PFKFB3, also named as NY-REN-56 and iPFK-2, plays a role in glucose metabolism. Its synthesis and degradation of fructose 2,6-bisphosphate. Endogenously generated adenosine cooperates with bacterial components to increase PFKFB3 isozyme activity, resulting in greater fructose 2,6-bisphosphate accumulation. PFKFB3 is required for increased growth, metabolic activity and is regulated through active JAK2 and STAT5.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nina M S Gustafsson	30250201	Nat Commun	WB, IF
Teresa W-M Fan	36150727	J Immunol	
Zhiping Liu	28928465	Nat Commun	

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

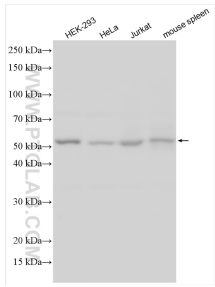
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

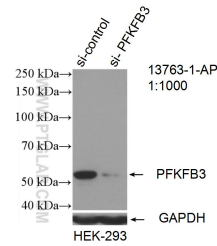
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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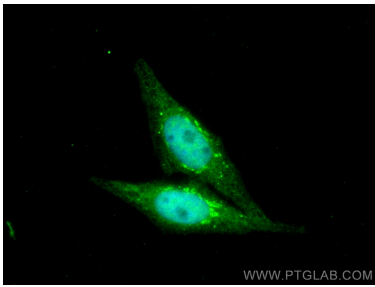
Selected Validation Data



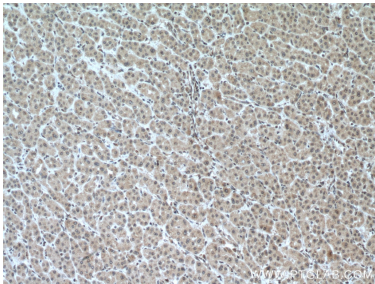
Various lysates were subjected to SDS PAGE followed by western blot with 13763-1-AP (PFKFB3-Specific antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



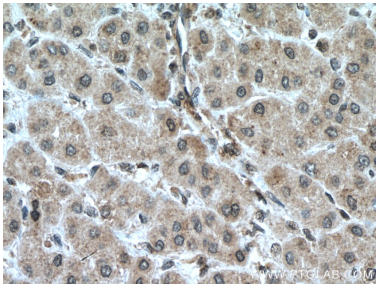
WB result of PFKFB3-Specific antibody (13763-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PFKFB3-Specific transfected HEK-293 cells.



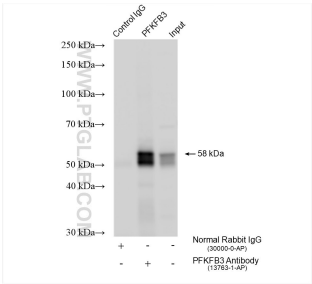
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PFKFB3-Specific antibody (13763-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 13763-1-AP (PFKFB3-Specific antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 13763-1-AP (PFKFB3-Specific antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PFKFB3 (IP:13763-1-AP, 4ug; Detection:13763-1-AP 1:500) with mouse spleen tissue lysate 2440 ug.