

# PFKFB3-Specific Polyclonal ANTIBODY

Catalog Number: 13763-1-AP

Featured Product

22 Publications

## Basic Information

**Catalog Number:**  
13763-1-AP

**Size:**  
60 µg/150 µl

**Source:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Antigen affinity purification

**Immunogen Catalog Number:**  
AG4744

**GenBank Accession Number:**  
BC040482

**GeneID (NCBI):**  
5209

**Full Name:**  
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3

**Calculated MW:**  
520aa, 60 kDa

**Observed MW:**  
58 kDa

**Recommended Dilutions:**

WB 1:1000-1:4000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:50-1:500

IF 1:20-1:200

## Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Cited Applications:**  
IF, IHC, IP, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse

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

**Positive Controls:**

**WB :** mouse spleen tissue; HEK-293 cells, mouse heart tissue, mouse thymus tissue, A431 cells, Jurkat cells

**IP :** HEK-293 cells; mouse spleen tissue

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

**IF :** HepG2 cells;

## Background Information

PFKFB3, also named as NY-REN-56 and iPFK-2, plays a role in glucose metabolism. It 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. This antibody is specific to PFKFB3.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nina M S Gustafsson	30250201	Nat Commun	WB, IF
Zhiping Liu	28928465	Nat Commun	
Julie O'Neal	27613609	Breast Cancer Res Treat	WB, IHC

## 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

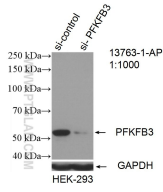
For technical support and original validation data for this product please contact:

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

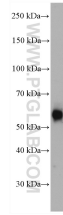
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

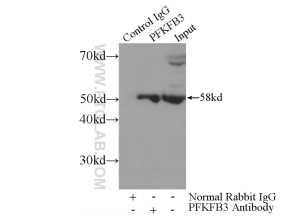
## Selected Validation Data



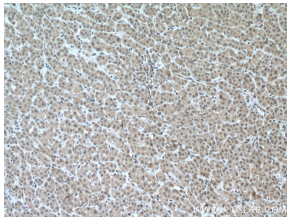
WB result of PFKFB3-Specific antibody (13763-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PFKFB3-Specific transfected HEK-293 cells



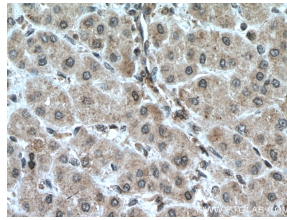
mouse spleen tissue were subjected to SDS-PAGE followed by western blot with 13763-1-AP (PFKFB3-Specific antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours



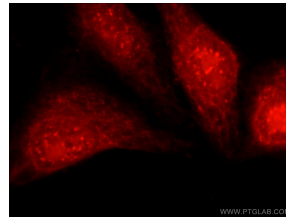
IP Result of anti-PFKFB3-Specific (IP: 13763-1-AP; 3 $\mu$ g; Detection: 13763-1-AP 1:1000) with HEK-293 cells lysate 4000 $\mu$ g.



Immunohistochemistry 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 retrieved with Tris-EDTA buffer(pH9).



Immunohistochemistry 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 retrieved with Tris-EDTA buffer(pH9).



Immunofluorescent analysis of HepG2 cells using 13763-1-AP (PFKFB3-Specific antibody) at dilution of 1:50 and Rhodamine-Goat anti-Rabbit IgG