For Research Use Only

PFKFB3 Polyclonal antibody

Catalog Number:13763-1-AP Featured Product 105 Publications

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Basic Information

Catalog Number:
13763-1-AP

Size:
150ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4744

GenBank Accession Number:
BC040482

GeneID (NCBI):
5209

Full Name:
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 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 1:50-1:500

Applications

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

Cited Applications:
CoIP, FC, IF, IHC, IP, WB

Species Specificity:
human, mouse

Cited Species:
human, rat, 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 thymus tissue, mouse heart tissue, A431 cells, HeLa cells, Jurkat cells, mouse spleen tissue

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. 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	

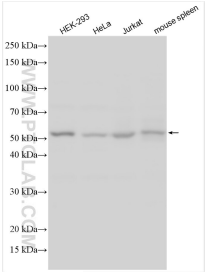
Storage

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

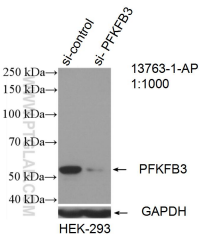
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

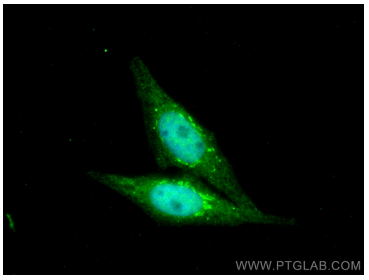
Selected Validation Data



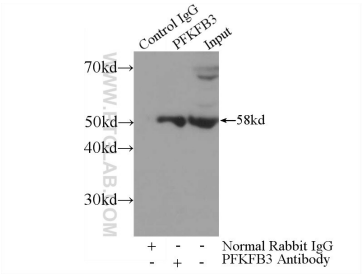
Various lysates were subjected to SDS PAGE followed by western blot with 13763-1-AP (PFKFB3-Specific antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



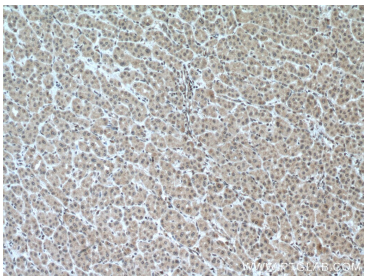
WB result of PFKFB3-Specific antibody (13763-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PFKFB3-Specific transfected HEK-293 cells.



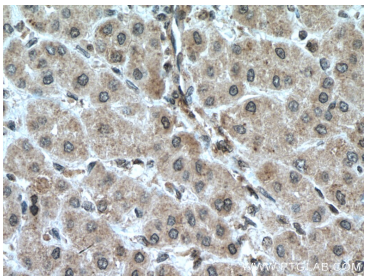
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PFKFB3-Specific antibody (13763-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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



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).