

PFKFB4 Polyclonal antibody

Catalog Number: 29902-1-AP

Basic Information

Catalog Number:

29902-1-AP

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG30571

GenBank Accession Number:

NM_001317134

GeneID (NCBI):

5210

UNIPROT ID:

Q16877

Full Name:

6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4

Calculated MW:

54 kDa

Observed MW:

54 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, IHC, 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 : HepG2 cells, MDA-MB-231 cells, PC-3 cells, Raji cells

IHC : human kidney tissue, mouse testis tissue

IF/ICC : HUVEC cells,

Background Information

PFKFB4 (6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4), is a bi-function enzyme. On one hand, PFKFB4 synthesizes fructose 2,6-bisphosphate (F2,6-BP) to stimulate glycolysis, playing important roles in metabolic processes. On the other hand, PFKFB4 acts as a phosphatase to hydrolyze F2,6-BP into fructose-6-phosphate (F6P) and inorganic phosphate (Pi), functioning as a protein kinase to phosphorylate protein substrates. The dual function of PFKFB4 makes it involved in multiple biological processes such as cell cycle regulation, cell proliferation and transcriptional regulation (PMID: 33593309). PFKFB4 has been reported to be involved in a variety of cancers including human bladder cancer, gastric cancer, colon cancer, breast cancer and other malignant tumors (PMID: 21396842, PMID: 33732372, PMID: 31244553).

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

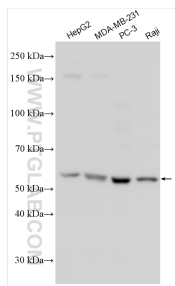
For technical support and original validation data for this product please contact:

T: 4006900926

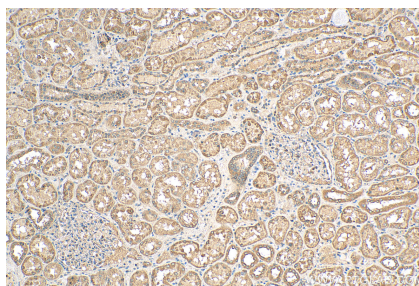
E: Proteintech-CN@ptglab.comW: ptgcn.com

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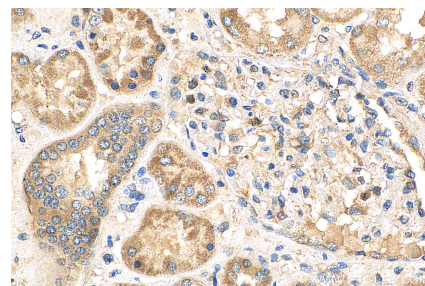
Selected Validation Data



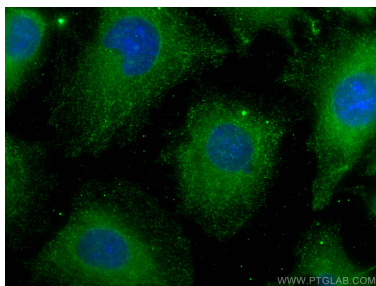
Various lysates were subjected to SDS PAGE followed by western blot with 29902-1-AP (PFKFB4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 29902-1-AP (PFKFB4 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 kidney tissue slide using 29902-1-AP (PFKFB4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HUVEC cells using PFKFB4 antibody (29902-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).