

For Research Use Only

PHKG2 Polyclonal antibody

Catalog Number: 15109-1-AP

1 Publications



Basic Information

Catalog Number:

15109-1-AP

Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6829

GenBank Accession Number:

BC002541

GeneID (NCBI):

5261

UNIPROT ID:

P15735

Full Name:

phosphorylase kinase, gamma 2 (testis)

Calculated MW:

46 kDa

Observed MW:

46 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

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

Species Specificity:

human, mouse, rat

Cited Species:

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 testis tissue

IP : HEK-293 cells,

IHC : human liver cancer tissue,

IF/ICC : HEK-293 cells,

Background Information

PHKG2 (phosphorylase kinase catalytic subunit gamma 2), it is expected to be located in the cytoplasm, which is enriched in the testis. Catalytic subunit of the phosphorylase b kinase (PHK), which mediates the neural and hormonal regulation of glycogen breakdown (glycogenolysis) by phosphorylating and thereby activating glycogen phosphorylase. It may regulates glycogenolysis in the testis. Phosphorylase kinase is a polymer of 16 subunits, four each of alpha, beta, gamma and delta. The gamma subunit also includes the skeletal muscle and hepatic isoforms, and the hepatic isoform is encoded by this gene. The gamma subunits contain the active site of the enzyme, whereas the alpha and beta subunits have regulatory functions controlled by phosphorylation. The delta subunit mediates the dependence of the enzyme on calcium concentration. The molecular weight of PHKG2 is 46 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhenkang Chen	36598990	Sci Adv	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

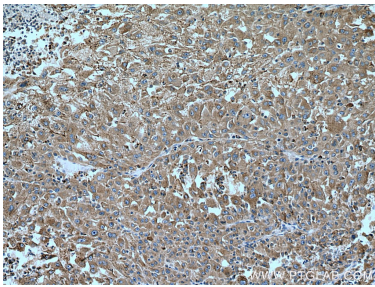
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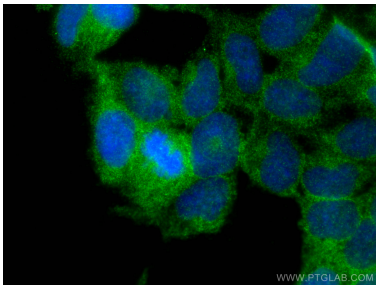
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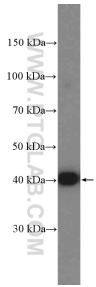
Selected Validation Data



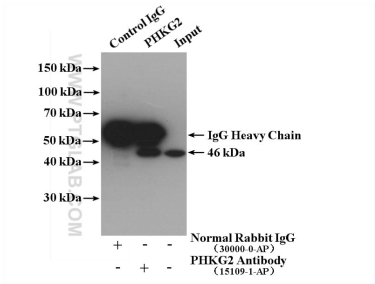
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15109-1-AP (PHKG2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using PHKG2 antibody (15109-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).



HEK-293 cells were subjected to SDS PAGE followed by western blot with 15109-1-AP (PHKG2 Antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



HEK-293 cells were subjected to SDS PAGE followed by western blot with 15109-1-AP (PHKG2 antibody) at dilution of 1:300.