

For Research Use Only

PHKG1 Polyclonal antibody

Catalog Number: 16743-1-AP **1 Publications**



Basic Information

Catalog Number: 16743-1-AP	GenBank Accession Number: BC051327	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop and 280 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5260	Recommended Dilutions: WB 1:1000-1:5000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: phosphorylase kinase, gamma 1 (muscle)	IHC 1:50-1:500
Isotype: IgG	Calculated MW: 387 aa, 45 kDa	
Immunogen Catalog Number: AG10032	Observed MW: 40 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB : mouse skeletal muscle tissue, rat skeletal muscle tissue
Cited Applications: WB	IP : mouse skeletal muscle tissue,
Species Specificity: human, mouse, rat	IHC : mouse skeletal muscle tissue,
Cited Species: pig	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

PHKG1(Phosphorylase b kinase gamma catalytic chain, skeletal muscle isoform) is also named as phosphorylase kinase subunit gamma-1, PHKG and belongs to the CAMK Ser/Thr protein kinase family. Phosphorylase kinase is a crucial glycogenolytic regulatory enzyme. The holoenzymes are composed of 16 subunit proteins containing equimolar ratios of 4 subunit types known as alpha, beta, gamma, and delta. This protein is the skeletal muscle isoform of phosphorylase kinase and kinetic differences exist between the cardiac and adult skeletal muscle enzymes, and the liver and skeletal muscle enzymes are known to be separate isozymes.

Notable Publications

Author	Pubmed ID	Journal	Application
Junwu Ma	25340394	PLoS Genet	WB

Storage

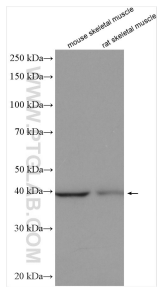
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

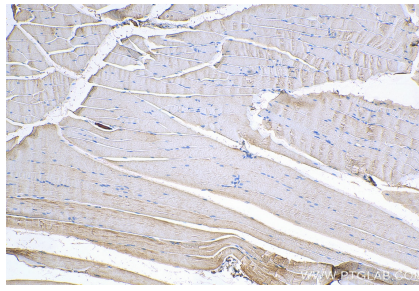
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

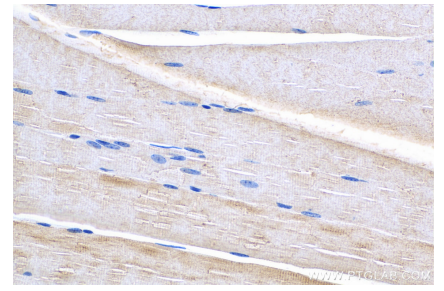
Selected Validation Data



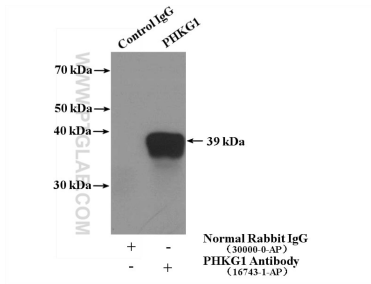
Various lysates were subjected to SDS PAGE followed by western blot with 16743-1-AP (PHKG1 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 16743-1-AP (PHKG1 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 mouse skeletal muscle tissue slide using 16743-1-AP (PHKG1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-PHKG1 (IP:16743-1-AP, 4ug; Detection:16743-1-AP 1:600) with mouse skeletal muscle tissue lysate 4000ug.