

For Research Use Only

PGM1 Polyclonal antibody

Catalog Number: 15161-1-AP

Featured Product

17 Publications



Basic Information

Catalog Number:

15161-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 393 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7269

GenBank Accession Number:

BC001756

GeneID (NCBI):

5236

UNIPROT ID:

P36871

Full Name:

phosphoglucomutase 1

Calculated MW:

61 kDa

Observed MW:

61 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:400-1:1600

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB: HeLa cells, mouse skin tissue, HEK-293 cells, Jurkat cells, mouse heart tissue, rat heart tissue

IP: mouse skin tissue,

IHC: human hepatocirrhosis tissue, human testis tissue

IF/ICC: HepG2 cells,

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

PGM1(Phosphoglucomutase-1) is also named as glucose phosphomutase 1 and belongs to the phosphohexose mutase family. It catalyzes the transfer of phosphate between the 1 and 6 positions of glucose. In most cell types, PGM1 isozymes predominate, representing about 90% of total PGM activity. One exception is red cells, where PGM2 is a major isozyme(PMID:8257433). Defects in PGM1 are the cause of glycogen storage disease type 14 (GSD14) (PMID:19625727). It has 2 isoforms produced by alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
Scott P Allen	31647549	Brain	WB
Zhewen Zheng	35614441	Cancer Cell Int	IHC
Xintian Chen	33794309	Cancer Lett	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

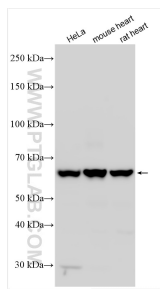
For technical support and original validation data for this product please contact:

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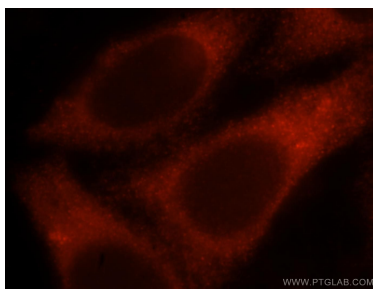
E: proteintech@ptglab.com
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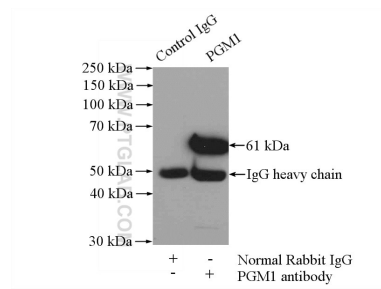
Selected Validation Data



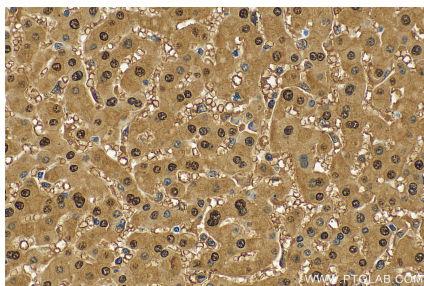
Various lysates were subjected to SDS PAGE followed by western blot with 15161-1-AP (PGM1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells, using PGM1 antibody 15161-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-PGM1 (IP:15161-1-AP, 4ug; Detection:15161-1-AP 1:1000) with mouse skin tissue lysate 3200ug.



Immunohistochemical analysis of paraffin-embedded human hepatocirrhosis tissue slide using 15161-1-AP (PGM1 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).