

For Research Use Only

PRPS1 Polyclonal antibody

Catalog Number: 15549-1-AP

11 Publications



Basic Information

Catalog Number: 15549-1-AP	GenBank Accession Number: BC001605	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 300 µg/ml by Nanodrop;	GeneID (NCBI): 5631	Recommended Dilutions: WB 1:1000-1:6000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
Source: Rabbit	Full Name: phosphoribosyl pyrophosphate synthetase 1	IHC 1:50-1:500 IF 1:10-1:100
Isotype: IgG	Calculated MW: 318 aa, 35 kDa	
Immunogen Catalog Number: AG7907	Observed MW: 35 kDa	

Applications

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

Cited Applications:
CoIP, IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human

Positive Controls:

WB: Jurkat cells, rat spleen tissue, HeLa cells, HEK-293 cells, mouse kidney tissue

IP: HeLa cells,

IHC: mouse testis tissue,

IF: 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

PRPS1, also named as Ribose-phosphate pyrophosphokinase 1, is a 318 amino acid protein, which belongs to the ribose-phosphate pyrophosphokinase family. PRPS1 can form Homodimer and the active form is probably a hexamer composed of 3 homodimers. PRPS1 catalyzes the synthesis of phosphoribosylpyrophosphate (PRPP) that is essential for nucleotide synthesis. PRPS1 as a module has an association with the Hepatocellular carcinoma.

Notable Publications

Author	Pubmed ID	Journal	Application
Guohang Xiong	36203561	Front Immunol	WB,IHC
Ronghui Yang	36396642	Nat Commun	WB
Chia-Chun Chang	35833994	Cell Mol Life Sci	IF

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

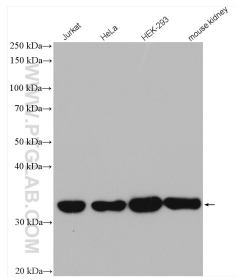
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

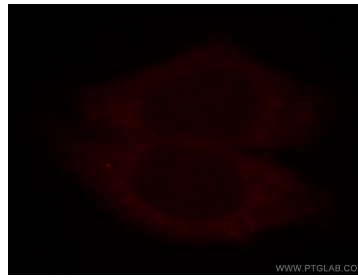
E: proteintech@ptglab.com
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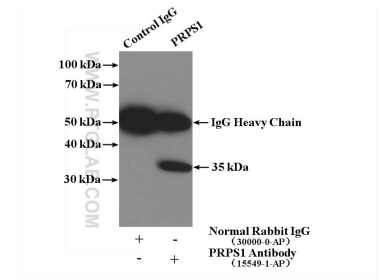
Selected Validation Data



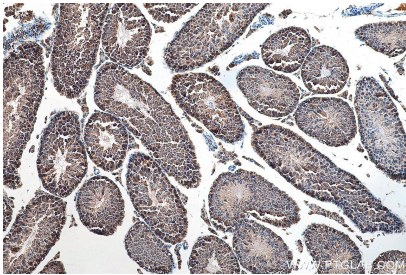
Various lysates were subjected to SDS PAGE followed by western blot with 15549-1-AP (PRPS1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



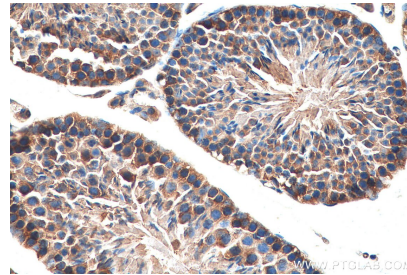
Immunofluorescent analysis of HepG2 cells, using PRPS1 antibody 15549-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP Result of anti-PRPS1 (IP:15549-1-AP, 4ug; Detection:15549-1-AP 1:100) with HeLa cells lysate 2600ug.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 15549-1-AP (PRPS1 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 testis tissue slide using 15549-1-AP (PRPS1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).