For Research Use Only

PRPS2 Polyclonal antibody

Catalog Number:27024-1-AP Featured Product 6 Publications

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Basic Information

Catalog Number:
27024-1-AP

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

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG25785

GenBank Accession Number:
BC119662

GeneID (NCBI):
5634

UNIPROT ID:
P11908

Full Name:
phosphoribosyl pyrophosphate synthetase 2

Observed MW:
30-34 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:1000-1:4000
IF/ICC 1:200-1:800

Applications

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

Cited Applications:
WB, IHC, CoIP

Species Specificity:
human, mouse

Cited Species:
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 : A375 cells,

IP : A375 cells, mouse spleen tissue

IHC : human stomach tissue,

IF/ICC : A375 cells,

Background Information

PRPS (phosphoribosyl pyrophosphate synthetase) proteins catalyze the synthesis of phosphoribosyl pyrophosphate (PRPP). Three human PRPS isoforms exist and are encoded by three different genes. PRPS1 and PRPS2 (also known as PRS1 and PRS2, respectively) are ubiquitously expressed, while PRPS3 (also known as PRPS1L1) is specific to the testis. PRPP is an important substrate synthesized from MgATP and ribose-5-phosphate in a reaction that requires inorganic phosphate and magnesium as a cofactor. PRPP is essential in the synthesis of nearly all nucleotides, implying that PRPS proteins play an important role in nucleotide biosynthesis and purine metabolism. PRPS2 is a 318 amino acid protein that exists as a homodimer and a hexamer composed of three homodimers.

Notable Publications

Author	Pubmed ID	Journal	Application
Ronghui Yang	36396642	Nat Commun	WB
Yajing Lv	33186350	PLoS Biol	WB, IHC
Shashank Srivastava	33571115	Sci Adv	CoIP,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)
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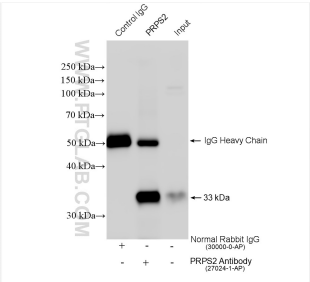
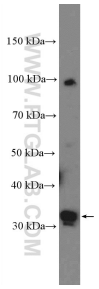
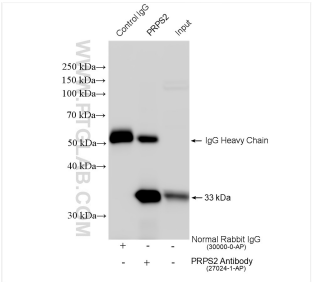
Selected Validation Data



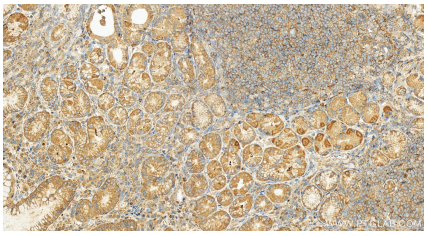
IP result of anti-PRPS2 (IP:27024-1-AP, 4ug; Detection:27024-1-AP 1:1000) with mouse spleen tissue lysate 1560 ug.



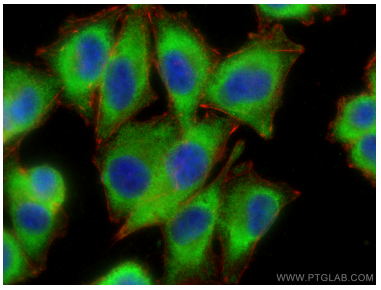
A375 cells were subjected to SDS PAGE followed by western blot with 27024-1-AP (PRPS2 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-PRPS2 (IP:27024-1-AP, 4ug; Detection:27024-1-AP 1:1000) with A375 cells lysate 1600 ug.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 27024-1-AP (PRPS2 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed A375 cells using PRPS2 antibody (27024-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).