

For Research Use Only

PRPSAP2 Polyclonal antibody

Catalog Number: 17814-1-AP

2 Publications



Basic Information

Catalog Number:

17814-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12132

GenBank Accession Number:

BC106050

GeneID (NCBI):

5636

UNIPROT ID:

O60256

Full Name:

phosphoribosyl pyrophosphate synthetase-associated protein 2

Calculated MW:

369 aa, 41 kDa

Observed MW:

37-41 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:20-1:200

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : BxPC-3 cells, mouse brain tissue, HeLa cells, rat brain tissue

IHC : human pancreas tissue,

IF/ICC : BxPC-3 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

PRPSAP2, also named as PAP41, is 369 amino acid protein, which Seems to play a negative regulatory role in 5-phosphoribose 1-diphosphate synthesis. PRPSAP2 is another protein involved in nucleic acid metabolism. The PRPSAP2 gene encodes part of the enzyme PRPP synthetase, which catalyzes the formation of phosphoribosylpyrophosphate, being a primary substrate for newly formed purine and pyrimidine nucleotides. Depletion of the PRPP synthetase causes growth arrest, the reverse has not been shown. Overexpression of SHMT1 and PRPSAP2 (and also COPS3) has been reported to occur in multiple myelomas. PRPSAP2 exists several isoforms with the range of molecular weight about 35-43 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Austin C MacMillan	39868212	bioRxiv	WB
Bibek R Karki	39411161	bioRxiv	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

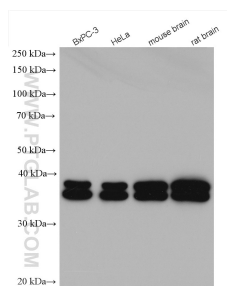
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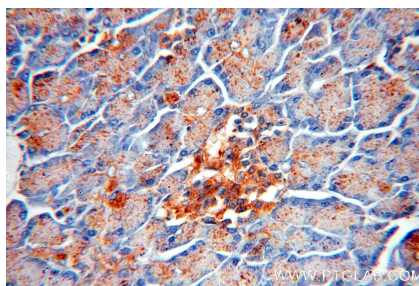
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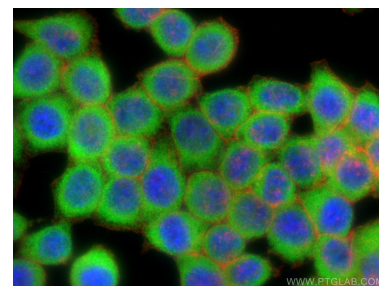
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 17814-1-AP (PRPSAP2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas using 17814-1-AP (PRPSAP2 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed BxPC-3 cells using PRPSAP2 antibody (17814-1-AP) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).