

For Research Use Only

RGN/SMP30 Polyclonal antibody

Catalog Number: 17947-1-AP **10 Publications**



Basic Information

Catalog Number:

17947-1-AP

Size:

400 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12423

GenBank Accession Number:

BC073173

GeneID (NCBI):

9104

UNIPROT ID:

Q15493

Full Name:

regucalcin (senescence marker

protein-30)

Calculated MW:

299 aa, 33 kDa

Observed MW:

33 kDa, 25 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:3000-1:10000

IP 0.5-4.0 µg for 1.0-3.0 mg of total

protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, bovine

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: mouse liver tissue, mouse small intestine tissue, rat liver tissue

IP: mouse liver tissue,

IHC: rat kidney tissue, human liver tissue, human kidney tissue, human hepatocirrhosis tissue

Background Information

Regucalcin (RGN), also known as SMP30, is a highly conserved, calcium-binding protein, that is preferentially expressed in the liver and kidney. SMP30 is preferentially localized in hepatocytes and renal proximal tubular epithelial cells. It is known to be related to aging, hepatocyte proliferation and tumorigenesis. It may be useful for HCC serologic screening, especially for the patients with AFP Negative. RGN encodes two isoforms: 33 kDa and 25 kDa.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|---------------------|-------------|
| Le Zhang | 34688152 | Int Immunopharmacol | WB |
| Norihiro Okada | 34082065 | Gene | WB |
| Xiaolong Li | 31289533 | Oncol 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

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

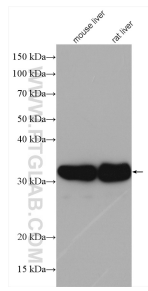
T: 4006900926

E: Proteintech-CN@ptglab.com

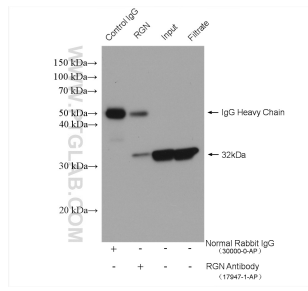
W: ptgcn.com

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

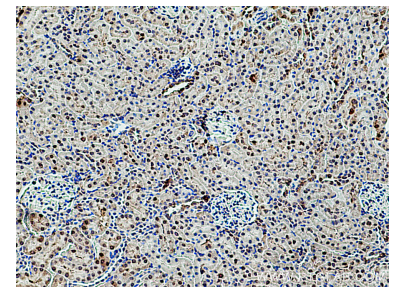
Selected Validation Data



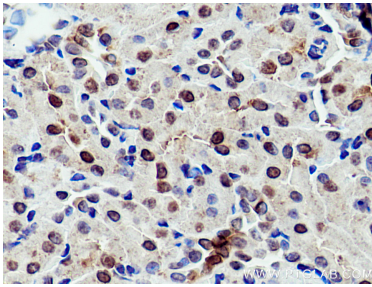
Various lysates were subjected to SDS PAGE followed by western blot with 17947-1-AP (RGN/SMP30 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP result of anti-RGN/SMP30 (IP:17947-1-AP, 4ug; Detection:17947-1-AP 1:15000) with mouse liver tissue lysate 3040 ug.



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 17947-1-AP (RGN/SMP30 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 rat kidney tissue slide using 17947-1-AP (RGN/SMP30 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).