

For Research Use Only

# RGN/SMP30 Polyclonal antibody

Catalog Number: 17947-1-AP

11 Publications



## Basic Information

### Catalog Number:

17947-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

### 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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, 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

\*\*\* 20ul sizes contain 0.1% BSA

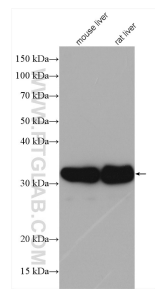
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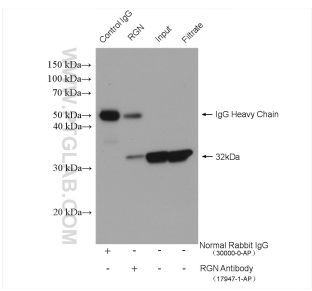
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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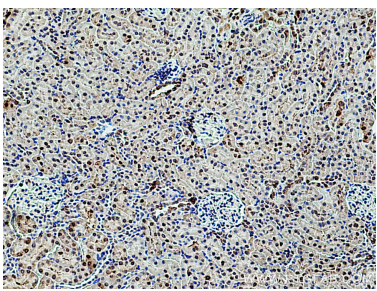
Selected Validation Data



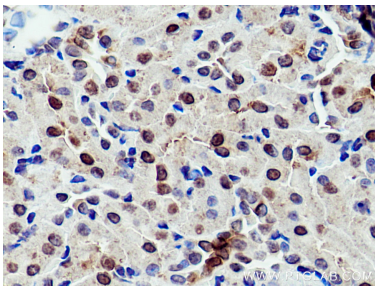
Various lysates were subjected to SDS PAGE followed by western blot with 17947-1-AP (RGN/SMP30 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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).