

For Research Use Only

# RPS6KA1 Polyclonal antibody

Catalog Number: 16463-1-AP

7 Publications



## Basic Information

### Catalog Number:

16463-1-AP

### Size:

150ul, Concentration: 260 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9537

### GenBank Accession Number:

BC014966

### GeneID (NCBI):

6195

### UNIPROT ID:

Q15418

### Full Name:

ribosomal protein S6 kinase, 90kDa, polypeptide 1

### Calculated MW:

735 aa, 83 kDa

### Observed MW:

83-90, 73 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg 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

### Species Specificity:

human

### Cited Species:

human, rat

### Positive Controls:

WB : K-562 cells,

IP : K-562 cells,

IHC : human liver cancer tissue,

**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

The 90 kDa ribosomal S6 kinases (RSK1-4) are a family of widely expressed serine/threonine kinases and play an important role in the MAPK signaling cascade and act downstream of ERK1/2 signaling. It can mediate mitogenic and stress-induced activation of the transcription factors CREB1, ETV1/ER81 and NR4A1/NUR77. RSK1 (RPS6KA1) is also designated as p90RSK associated with cellular proliferation, survival and differentiation. RPS6KA1 has some phosphorylation sites including Ser380, Thr359 and Ser363 which are important for kinase activation (PMID: 16458888, 30813401, 17259979, 10679322)

## Notable Publications

Author	Pubmed ID	Journal	Application
Yunfeng Hu	36209218	Cell Death Dis	WB
Chenggang Zhao	35606353	Oncogenesis	WB
Qing-Ping Yao	31990052	J Cell Physiol	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

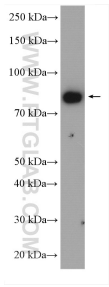
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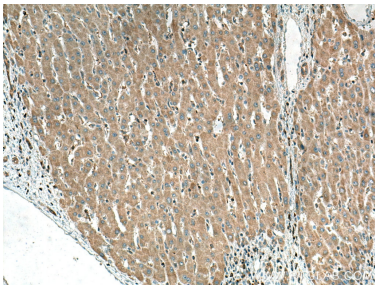
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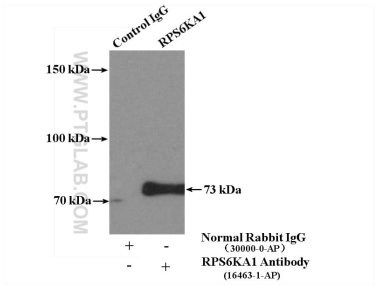
Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 16463-1-AP (RPS6KA1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 16463-1-AP (RPS6KA1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-RPS6KA1 (IP:16463-1-AP, 4ug; Detection:16463-1-AP 1:300) with K-562 cells lysate 2800ug.