

For Research Use Only

RPS6KA1 Polyclonal antibody

Catalog Number: 16463-1-AP **6 Publications**



Basic Information

| | | |
|---|--|--|
| Catalog Number: 16463-1-AP | GenBank Accession Number: BC014966 | Purification Method: Antigen affinity purification |
| Size: 150ul, Concentration: 260 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 6195 | Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB |
| Source: Rabbit | Full Name: ribosomal protein S6 kinase, 90kDa, polypeptide 1 | IHC 1:50-1:500 |
| Isotype: IgG | Calculated MW: 735 aa, 83 kDa | |
| Immunogen Catalog Number: AG9537 | Observed MW: 83-90, 73 kDa | |

Applications

| | |
|---|--|
| Tested Applications: IHC, IP, WB, ELISA | Positive Controls: |
| Cited Applications: WB | WB: K-562 cells, |
| Species Specificity: human | IP: K-562 cells, |
| Cited Species: human, rat | 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

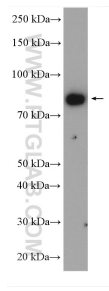
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

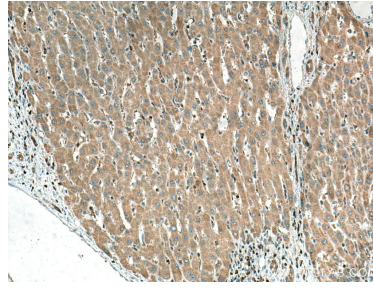
For technical support and original validation data for this product please contact:
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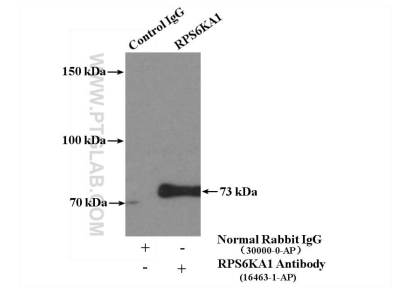
Selected Validation Data



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.