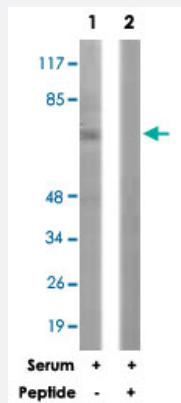


# RPS6KB1 polyclonal antibody

Catalog # PAB18198

Size 100 ug

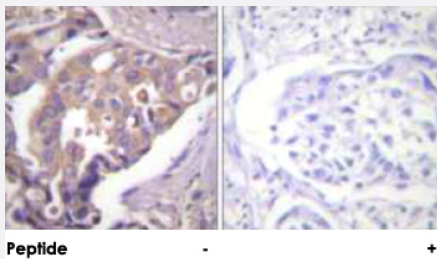
## Applications



### Western Blot (Cell lysate)

Western blot analysis of extracts from 293 cells, treated with serum (20 %, 15 mins), using RPS6KB1 polyclonal antibody (Cat # PAB18198).

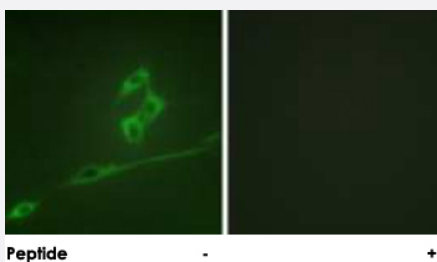
Peptide "+" means "peptide blocking".



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using RPS6KB1 polyclonal antibody (Cat # PAB18198).

Peptide "+" means "peptide blocking".



### Immunofluorescence

Immunofluorescence analysis of NIH/3T3 cells, using RPS6KB1 polyclonal antibody (Cat # PAB18198).

Peptide "+" means "peptide blocking".

## Specification

### Product Description

Rabbit polyclonal antibody raised against synthetic peptide of RPS6KB1.

|                            |                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen</b>           | A synthetic peptide corresponding to residues surrounding S371 of human RPS6KB1.                                                                                                               |
| <b>Host</b>                | Rabbit                                                                                                                                                                                         |
| <b>Reactivity</b>          | Human, Mouse, Rat                                                                                                                                                                              |
| <b>Specificity</b>         | This antibody is specific to RPS6KB1.                                                                                                                                                          |
| <b>Form</b>                | Liquid                                                                                                                                                                                         |
| <b>Purification</b>        | Affinity purification                                                                                                                                                                          |
| <b>Concentration</b>       | 1 mg/mL                                                                                                                                                                                        |
| <b>Recommend Usage</b>     | Western Blot (1:500-1:1000)<br>Immunohistochemistry (1:50-1:100)<br>Immunofluorescence (1:500-1:1000)<br>ELISA (1:20000)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)                                                                                                                                  |
| <b>Storage Instruction</b> | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                             |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                         |

## Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from 293 cells, treated with serum (20 %, 15 mins), using RPS6KB1 polyclonal antibody (Cat # PAB18198).

Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using RPS6KB1 polyclonal antibody (Cat # PAB18198).

Peptide "+" means "peptide blocking".

- Immunofluorescence

Immunofluorescence analysis of NIH/3T3 cells, using RPS6KB1 polyclonal antibody (Cat # PAB18198).

Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — RPS6KB1

**Entrez GeneID** [6198](#)

**Protein Accession#** [P23443](#)

**Gene Name** RPS6KB1

**Gene Alias** PS6K, S6K, S6K1, STK14A, p70(S6K)-alpha, p70-S6K, p70-alpha

**Gene Description** ribosomal protein S6 kinase, 70kDa, polypeptide 1

**Omim ID** [608938](#)

**Gene Ontology** [Hyperlink](#)

**Gene Summary** This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 non-identical kinase catalytic domains and phosphorylates several residues of the S6 ribosomal protein. The kinase activity of this protein leads to an increase in protein synthesis and cell proliferation. Amplification of the region of DNA encoding this gene and overexpression of this kinase are seen in some breast cancer cell lines. Alternate translational start sites have been described and alternate transcriptional splice variants have been observed but have not been thoroughly characterized. [provided by RefSeq]

**Other Designations** p70 S6 kinase, alpha 1|p70 S6 kinase, alpha 2|ribosomal protein S6 kinase, 70kD, polypeptide 1|serine/threonine kinase 14 alpha

## Publication Reference

- [Differential activation mechanisms of Erk-1/2 and p70\(S6K\) by glucose in pancreatic beta-cells.](#)

Briaud I, Lingohr MK, Dickson LM, Wrede CE, Rhodes CJ.

Diabetes 2003 Apr; 52(4):974.

Application: WB, Rat, INS-1 cells, Islets

- [Ultraviolet-induced phosphorylation of p70\(S6K\) at Thr\(389\) and Thr\(421\)/Ser\(424\) involves hydrogen peroxide and mammalian target of rapamycin but not Akt and atypical protein kinase C.](#)

Huang C, Li J, Ke Q, Leonard SS, Jiang BH, Zhong XS, Costa M, Castranova V, Shi X.

Cancer Research 2002 Oct; 62(20):5689.

- [The activated glucocorticoid receptor modulates presumptive autoregulation of ribosomal protein S6 protein kinase, p70 S6K.](#)

Shah OJ, Iniguez-Lluhi JA, Romanelli A, Kimball SR, Jefferson LS.

The Journal of Biological Chemistry 2002 Jan; 277(4):2525.

Application: WB-Ce, Human, Monkey, Mouse, Rat, C2C12, COS-7, HEK 293, L6 cells

## Pathway

- [Acute myeloid leukemia](#)
- [ErbB signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Insulin signaling pathway](#)
- [mTOR signaling pathway](#)
- [TGF-beta signaling pathway](#)

## Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Head and Neck Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)