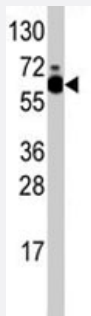


RPS6KB1 polyclonal antibody

Catalog # PAB1967

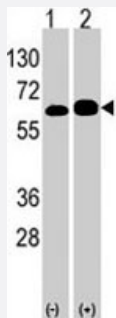
Size 400 uL

Applications



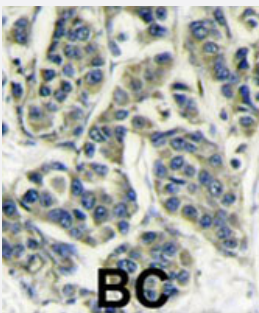
Western Blot (Cell lysate)

Western blot analysis of RPS6KB1 polyclonal antibody (Cat # PAB1967) in Jurkat cell line lysates. RPS6KB1 (arrow) was detected using the purified polyclonal antibody.



Western Blot (Transfected lysate)

Western blot analysis of RPS6KB1 polyclonal antibody (Cat # PAB1967) in 293 cell line lysates transiently transfected with the RPS6KB1 gene (2 ug/lane). RPS6KB1 (arrow) was detected using the purified polyclonal antibody.



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

Formalin-fixed and paraffin-embedded human breast cancer tissue reacted with RPS6KB1 polyclonal antibody (Cat # PAB1967), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of RPS6KB1.

Immunogen

A synthetic peptide (conjugated with KLH) corresponding to internal region of human RPS6KB1.

Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	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 RPS6KB1 polyclonal antibody (Cat # PAB1967) in Jurkat cell line lysates. RPS6KB1 (arrow) was detected using the purified polyclonal antibody.

- Western Blot (Transfected lysate)

Western blot analysis of RPS6KB1 polyclonal antibody (Cat # PAB1967) in 293 cell line lysates transiently transfected with the RPS6KB1 gene (2 ug/lane). RPS6KB1 (arrow) was detected using the purified polyclonal antibody.

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

Formalin-fixed and paraffin-embedded human breast cancer tissue reacted with RPS6KB1 polyclonal antibody (Cat # PAB1967), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Gene Info — RPS6KB1

Entrez GeneID	6198
Protein Accession#	NP_003152: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 kinase s. 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

- [ERBB2, TBX2, RPS6KB1, and MYC alterations in breast tissues of BRCA1 and BRCA2 mutation carriers.](#)

Adem C, Soderberg CL, Hafner K, Reynolds C, Slezak JM, Sinclair CS, Sellers TA, Schaid DJ, Couch F, Hartmann LC, Jenkins RB.

Genes, Chromosomes & Cancer 2004 Sep; 41(1):1.

- [Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions.](#)

Suzuki Y, Yamashita R, Shiota M, Sakakibara Y, Chiba J, Mizushima-Sugano J, Nakai K, Sugano S.

Genome Research 2004 Sep; 14(9):1711.

- [Ribosomal p70S6K basal activity increases upon induction of differentiation of myelomonocytic leukemic cell lines HL60, AML14 and MPD.](#)

Gomez-Cambronero J, Frye T, Baumann M.

Leukemia Research 2004 Jul; 28(7):755.

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](#)