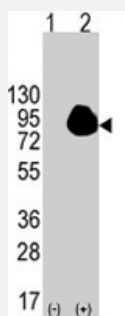


RPS6KA1 polyclonal antibody

Catalog # PAB2115

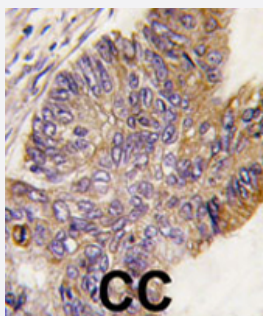
Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of RPS6KA1 (arrow) using RPS6KA1 polyclonal antibody (Cat # PAB2115). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the RPS6KA1 gene (Lane 2) (Origene Technologies).



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

Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with RPS6KA1 polyclonal antibody (Cat # PAB2115), 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 RPS6KA1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to residues surrounding S732 of human RPS6KA1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) 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

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Gene Info — RPS6KA1

Entrez GeneID	6195
Protein Accession#	NP_002944:Q15418
Gene Name	RPS6KA1
Gene Alias	HU-1, MAPKAPK1A, RSK, RSK1
Gene Description	ribosomal protein S6 kinase, 90kDa, polypeptide 1
Omim ID	601684
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 nonidentical kinase catalytic domains and phosphorylates various substrates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

Other Designations

OTTHUMP00000004113|S6K-alpha 1|dJ590P13.1 (ribosomal protein S6 kinase, 90kD, polypeptide 1)|p90-RSK 1|ribosomal protein S6 kinase alpha 1|ribosomal protein S6 kinase, 90kD, 1|ribosomal protein S6 kinase, 90kD, polypeptide 1

Publication Reference

- [14-3-3beta is a p90 ribosomal S6 kinase \(RSK\) isoform 1-binding protein that negatively regulates RSK kinase activity.](#)

Cavet ME, Lehoux S, Berk BC.

The Journal of Biological Chemistry 2003 Mar; 278(20):18376.

- [Mammalian cell size is controlled by mTOR and its downstream targets S6K1 and 4EBP1/eIF4E.](#)

Fingar DC, Salama S, Tsou C, Harlow E, Blenis J.

Genes & Development 2002 Jun; 16(12):1472.

Application: WB-Tr, Human, U-2 OS cells

- [Vlla/tissue factor interaction results in a tissue factor cytoplasmic domain-independent activation of protein synthesis, p70, and p90 S6 kinase phosphorylation.](#)

Versteeg HH, Sorensen BB, Slofstra SH, Van den Brande JH, Stam JC, van Bergen en Henegouwen PM, Richel DJ, Petersen LC, Peppelenbosch MP.

The Journal of Biological Chemistry 2002 Jul; 277(30):27065.

Application: WB-Ce, WB-Tr, Human, Mouse, BHK, HaCaT cells

Pathway

- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [mTOR signaling pathway](#)
- [Neurotrophin signaling pathway](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)