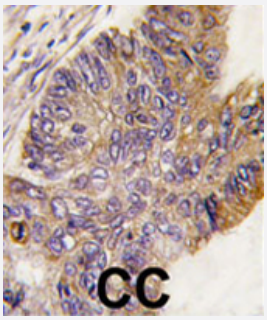
RPS6KA1 polyclonal antibody

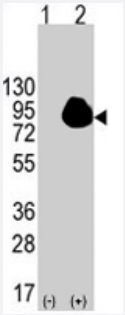
Catalog # PAB2115 Size 400 uL

Applications



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.



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).

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

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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 shoul d 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 kinase s. This kinase contains 2 nonidentical kinase catalytic domains and phosphorylates various substr ates, 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 transcript ional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq

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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

- VIIa/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

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- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Kidney Failure

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