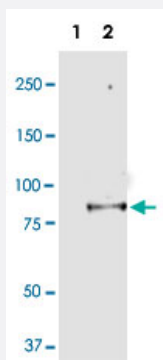


RPS6KA1 polyclonal antibody

Catalog # PAB16907 Size 100 ug

Applications

Western Blot (Cell lysate)



Western blot using RPS6KA1 polyclonal antibody (Cat # PAB16907) shows detection of a band ~90 kDa in size corresponding to RPS6KA1 (arrowhead) in EGF stimulated (Lane 2) HEK293T cell lysates prepared from cells grown in the absence of serum for 12 h. No staining is observed in similarly prepared lysates derived from unstimulated (control) cells (Lane 1). After transfer, the membrane was blocked overnight followed by reaction with the primary antibody at a 1 : 1,000 dilution. Detection occurred using a peroxidase conjugated secondary antibody and ECL.

Personal Communication. Kuldeep Patel, Loyola University Medical Center, Maywood, IL.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of RPS6KA1.
Immunogen	A synthetic peptide corresponding to a region near C-terminus end of human RPS6KA1 .
Host	Rabbit
Reactivity	Bovine, Dog, Horse, Human, Mouse, Rat
Form	Liquid
Recommend Usage	ELISA (1:4000-1:20000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% 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 using RPS6KA1 polyclonal antibody (Cat # PAB16907) shows detection of a band ~90 KDa in size corresponding to RPS6KA1 (arrowhead) in EGF stimulated (Lane 2) HEK293T cell lysates prepared from cells grown in the absence of serum for 12 h. No staining is observed in similarly prepared lysates derived from unstimulated (control) cells (Lane 1). After transfer, the membrane was blocked overnight followed by reaction with the primary antibody at a 1 : 1,000 dilution. Detection occurred using a peroxidase conjugated secondary antibody and ECL.

Personal Communication. Kuldeep Patel, Loyola University Medical Center, Maywood, IL.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — RPS6KA1

Entrez GeneID [6195](#)

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

- [Subcellular localization and biological actions of activated RSK1 are determined by its interactions with subunits of cyclic AMP-dependent protein kinase.](#)

Chaturvedi D, Poppleton HM, Stringfield T, Barbier A, Patel TB.

Molecular and Cellular Biology 2006 Jun; 26(12):4586.

Application: WB, Human, B82L, HeLa 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](#)