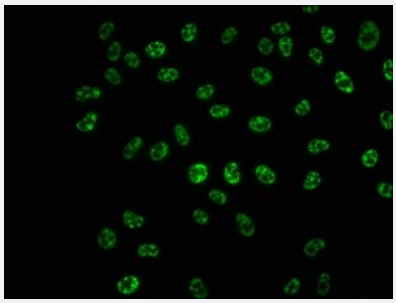
RecomAb™ Sm Size

RPS6KB1 (phospho T421/S424) recombinant monoclonal antibody, clone 3B6

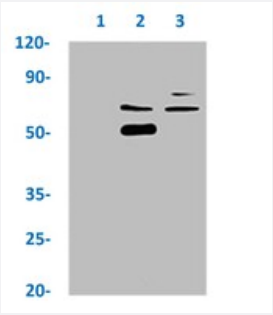
Catalog # RAB08015 Size 50 uL

Applications



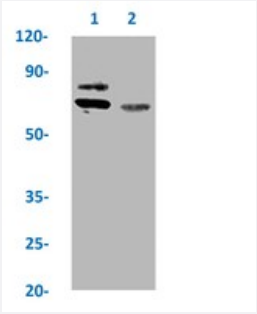
Immunofluorescence

Immunofluorescent staining of Hela cells with RPS6KB1 (phospho T421/S424) recombinant monoclonal antibody (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).



Immunoprecipitation

Immunoprecipitation analysis of HeLa cell lysate with RPS6KB1 (phospho T421/S424) recombinant monoclonal antibody.
Lane 1: rabbit control IgG,
Lane 2: RAB08015 precipitates and
Lane 3 : Input (Hela whole cell lysates).



Western Blot

Western blot analysis of
Lane 1: 293 whole cell lysate (treated with Calyculin A 50 nM/60 mins) and
Lane 2: 293 whole cell lysate (not treated) with RPS6KB1 (phospho T421/S424) recombinant monoclonal antibody.

Specification

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Product Description	Rabbit recombinant monoclonal antibody raised against human RPS6KB1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g T421/S424 of human RPS6KB1.
Theoretical MW (kDa)	Calculated MW: 70 kD
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Immunoprecipitation (1:200-1:1000) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	store at -20 °C or -80 °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

- Immunofluorescence

  Immunofluorescent staining of Hela cells with RPS6KB1 (phospho T421/S424) recombinant monoclonal antibody (diluated at 1:100). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

- Immunoprecipitation

  Immunoprecipitation analysis of HeLa cell lysate with RPS6KB1 (phospho T421/S424) recombinant monoclonal antibody.
  Lane 1: rabbit control IgG,
  Lane 2: RAB08015 precipitates and
  Lane 3 : Input (Hela whole cell lysates).

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- Western Blot

  Western blot analysis of
  Lane 1: 293 whole cell lysate (treated with Calyculin A 50 nM/60 mins) and
  Lane 2: 293 whole cell lysate (not treated) with RPS6KB1 (phospho T421/S424) recombinant monoclonal antibody.

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 kinase s. This kinase contains 2 non-identical kinase catalytic domains and phosphorylates several resid ues 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 overex pression 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 n ot 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

Pathway

- Acute myeloid leukemia
- ErbB signaling pathway
- Fc gamma R-mediated phagocytosis
- Insulin signaling pathway
- mTOR signaling pathway
- TGF-beta signaling pathway

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Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Head and Neck Neoplasms
- Neoplasm Recurrence
- Neoplasms

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