

RPS6KA1 recombinant antibody

Phospho-RPS6KA1 (T359+S363) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA235603	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Western Blot, ELISA

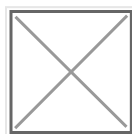
PRODUCT SYNONYMS

RPS6KA1; Monoclonal Recombinant Antibody; Phospho-RPS6KA1 (T359+S363) Antibody; Ribosomal protein S6 kinase alpha-1; S6K-alpha-1; 90 kDa ribosomal protein S6 kinase 1; p90-RSK 1; p90RSK1; p90S6K; MAP kinase-activated protein kinase 1a; MAPK-activated protein kinase 1a; MAPKAP kinase 1a; MAPKAPK-1a; Ribosomal S6 kinase 1; RSK-1; MAPKAPK1A; RSK1; RPS6KA1 recombinant antibody

PRODUCT SPECIFICATIONS

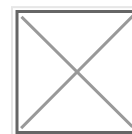
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity-Chromatography
Form/Format	Liquid; In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Sequence Length	744
Applicable Applications for RPS6KA1 recombinant antibody	IP (Immunoprecipitation), IF (Immunofluorescence), WB (Western Blot), ELISA
Immunogen Species	Human
Immunogen	A synthesized peptide derived from human Phospho-RPS6KA1 (T359+S363)
Conjugate	Non-Conjugated
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



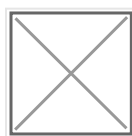
IP (Immunoprecipitation)

Immunoprecipitating Phospho-RPS6KA1 in HeLa whole cell lysate Lane 1: Rabbit control IgG(1ug) instead of CSB-RA618984A359phHU in HeLa whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000) Lane 2: CSB-RA618984A359phHU(3ug)+ HeLa whole cell lysate(1mg) Lane 3: HeLa whole cell lysate (20ug)



IF (Immunofluorescence)

Immunofluorescence staining of HeLa cells with CSB-RA618984A359phHU at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4 degree C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



WB (Western Blot)

Western Blot Positive WB detected in? HepG2 whole cell lysate (treated with EGF or not) All lanes? Phospho-RPS6KA1 antibody at 0.69ug/ml Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 90 KDa Observed band size: 90 KDa

ADDITIONAL INFORMATION

Related Product Information for RPS6KA1 recombinant antibody	Serine/threonine-protein kinase that acts downstream of ERK (MAPK1/ERK2 and MAPK3/ERK1) signaling and mediates mitogenic and stress-induced activation of the transcription factors CREB1, ETV1/ER81 and NR4A1/NUR77, regulates translation through RPS6 and EIF4B phosphorylation, and mediates cellular proliferation, survival, and differentiation by modulating mTOR signaling and repressing pro-apoptotic function of BAD and DAPK1. In fibroblast, is required for EGF-stimulated phosphorylation of CREB1, which results in the subsequent transcriptional activation of several immediate-early genes. In response to mitogenic stimulation (EGF and PMA), phosphorylates and activates NR4A1/NUR77 and ETV1/ER81 transcription factors and the cofactor CREBBP. Upon insulin-derived signal, acts indirectly on the transcription regulation of several genes by phosphorylating GSK3B at 'Ser-9' and inhibiting its activity. Phosphorylates RPS6 in response to serum or EGF via an mTOR-independent mechanism and promotes translation initiation by facilitating assembly of the pre-initiation complex. In response to insulin, phosphorylates EIF4B, enhancing EIF4B affinity for the EIF3 complex and stimulating cap-dependent translation. Is involved in the mTOR nutrient-sensing pathway by directly phosphorylating TSC2 at 'Ser-1798', which potently inhibits TSC2 ability to suppress mTOR signaling, and mediates phosphorylation of RPTOR, which regulates mTORC1 activity and may promote rapamycin-sensitive signaling independently of the PI3K/AKT pathway. Mediates cell survival by phosphorylating the pro-apoptotic proteins BAD and DAPK1 and suppressing their pro-apoptotic function. Promotes the survival of hepatic stellate cells by phosphorylating CEBPB in response to the hepatotoxin carbon tetrachloride (CCl4). Mediates induction of hepatocyte proliferation by TGFA through phosphorylation of CEBPB (By similarity). Is involved in cell cycle regulation by phosphorylating the CDK inhibitor CDKN1B, which promotes CDKN1B association with 14-3-3 proteins and prevents its translocation to the nucleus and inhibition of G1 progression. Phosphorylates EPHA2 at 'Ser-897', the RPS6KA-EPHA2 signaling pathway controls cell migration (PubMed:26158630).
Product Categories/Family for RPS6KA1 recombinant antibody	Recombinant Antibody; Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	55743134
NCBI GeneID	6195
NCBI Accession #	NP_001006666.1
NCBI GenBank Nucleotide #	NM_001006665.1
UniProt Accession #	Q15418; Q5SVM5; Q5SVM8; Q5SVM9; Q96C05; Q9BQK2; A6NGG4; A8K9K7; B2RDY8; B7Z5J0; E9PRI4
Molecular Weight	83,932 Da
NCBI Official Full Name	ribosomal protein S6 kinase alpha-1 isoform b
NCBI Official Synonym Full Names	ribosomal protein S6 kinase A1
NCBI Official Symbol	RPS6KA1
NCBI Official Synonym Symbols	RSK; HU-1; RSK1; p90Rsk; MAPKAPK1A
NCBI Protein Information	ribosomal protein S6 kinase alpha-1
UniProt Protein Name	Ribosomal protein S6 kinase alpha-1
UniProt Gene Name	RPS6KA1
UniProt Synonym Gene Names	MAPKAPK1A; RSK1; S6K-alpha-1; p90-RSK 1; p90RSK1; p90S6K; MAPK-activated protein kinase 1a; MAPKAP kinase 1a; MAPKAPK-1a; RSK-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.