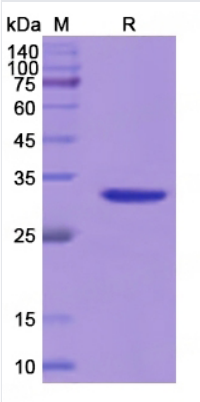
RPS6KA1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	RPS6KA1, Recombinant Protein
Full Product Name	Recombinant Human RPS6KA1, N-His
Product Gene Name	RPS6KA1 recombinant protein
Product Synonym Names	p90-RSK 1; Ribosomal S6 kinase 1; RSK1; p90RSK1; RPS6KA1; MAPKAP kinase 1a; MAPK-activated protein kinase 1a; RSK-1; MAPKAPK1A; MAP kinase-activated protein kinase 1a; MAPKAPK-1a; S6K-alpha-1; 90 kDa ribosomal protein S6 kinase 1; Ribosomal protein S6 kinase alpha-1; p90S6K
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	82,723 Da
Sequence Positions	Phe62-Tyr321
Chromosome Location	Chromosome: 1; NC_000001.10 (26856249..26901520). Location: 1p
OMIM	601684
3D Structure	ModBase 3D Structure for Q15418
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for RPS6KA1 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for RPS6KA1 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for RPS6KA1 recombinant protein	MBS1575964 is a recombinant protein targeting RPS6KA1. Also known as Recombinant Human RPS6KA1, N-His. Host: E coli.
Other Notes	Small volumes of RPS6KA1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of RPS6KA1 recombinant protein
SDS PAGE for recombinant Human RPS6KA1 protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPS6KA1. It may not necessarily be applicable to this product.

NCBI GI #	55743134
NCBI GeneID	6195
NCBI Accession #	NP_001006666.1
UniProt Primary Accession #	Q15418
UniProt Secondary Accession #	Q5SVM5; Q5SVM8; Q5SVM9; Q96C05; Q9BQK2; A6NGG4; A8K9K7; B2RDY8; B7Z5J0
UniProt Related Accession #	Q15418
GenBank Nucleotide #	NM_001006665.1
NCBI Official Full Name	ribosomal protein S6 kinase alpha-1 isoform b
NCBI Official Synonym Full Names	ribosomal protein S6 kinase, 90kDa, polypeptide 1
NCBI Official Symbol	RPS6KA1
NCBI Official Synonym Symbols	RSK; HU-1; RSK1; MAPKAPK1A
UniProt Protein Name	Ribosomal protein S6 kinase alpha-1
UniProt Synonym Protein Names	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
Protein Family	Ribosomal protein S6 kinase
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
UniProt Entry Name	KS6A1_HUMAN
NCBI Protein Information	ribosomal protein S6 kinase alpha-1; RSK-1; p90S6K; p90RSK1; p90-RSK 1; MAPKAPK-1a; S6K-alpha 1; S6K-alpha-1; MAPKAP kinase 1a; ribosomal S6 kinase 1; MAPK-activated protein kinase 1a; ribosomal protein S6 kinase alpha 1; 90 kDa ribosomal protein S6 kinas
NCBI Summary for RPS6KA1	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, Jul 2008]

UniProt Comments for RPS6KA1	p90RSK: an AGC kinase of the RSK family. Phosphorylated and activated by Erk1 and -2 in response to many growth factors, polypeptide hormones and neurotransmitters. Several phosphorylation sites are important for its activation. Possesses two kinase domains connected by a regulator linker region. Phosphorylates a wide range of substrates including ribosomal protein S6. Prominently expressed in brain structures essential for cognitive function and learning. Protein type: EC 2.7.11.1; Protein kinase, AGC; Kinase, protein; Translation; Protein kinase, Ser/Thr (non-receptor); AGC group; RSK family; RSK subfamily Chromosomal Location of Human Ortholog: 1p Cellular Component: nucleoplasm; cytoplasm; spindle; cytosol; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; caspase inhibitor activity; magnesium ion binding; protein serine/threonine/tyrosine kinase activity; ATP binding Biological Process: regulation of transcription in response to stress; axon guidance; nerve growth factor receptor signaling pathway; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; regulation of translation in response to stress; negative regulation of caspase activity; toll-like receptor 3 signaling pathway; signal transduction; cell cycle; positive regulation of cell growth; protein amino acid phosphorylation; toll-like receptor 10 signaling pathway; toll-like receptor 2 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; synaptic transmission; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; positive regulation of cell differentiation; toll-like receptor 4 signaling pathway; negative regulation of apoptosis
Research Articles on RPS6KA1	**1.** results indicate that RSK directly phosphorylates Gab2 on 3 serine residues; findings show RSK-mediated Gab2 phosphorylation inhibits Shp2 recruitment, suggesting RSK mediates a negative-feedback loop that attenuates Gab2-dependent functions including cell motility
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