Rps6ka2 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	Rps6ka2, Blocking Peptide
Full Product Name	Rps6ka2 Peptide - C-terminal region
Product Gene Name	Rps6ka2 blocking peptide
Product Synonym Gene Name	90kDa; D17Wsu134e; Rps6ka-rs1; Rsk3; p90rsk; pp90rsk
Sequence	KMLHVDPQQR LTAVQVLKHP WIVNREYLSQ NQLSRQDVHL VKGAMAATYF
Species Reactivity	Mouse, Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	Rps6ka2 peptide (MBS3237552) is used for blocking the activity of Rps6ka2 antibody (MBS3212605)
Molecular Weight	81kDa
Product Categories/Family for Rps6ka2 blocking peptide	Peptide
Applications Tested/Suitable for Rps6ka2 blocking peptide	Western Blot (WB)
Related Product Information for Rps6ka2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-Rps6ka2 Antibody, made Target Description: Rps6ka2 is a serine/threonine-protein kinase that acts downstream of ERK (MAPK1/ERK2 and MAPK3/ERK1) signaling and mediates mitogenic and stress-induced activation of transcription factors, regulates translation, and mediates cellular proliferation, survival, and differentiation. May function as tumor suppressor in epithelial ovarian cancer cells.
Other Notes	Small volumes of Rps6ka2 blocking peptide 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.
Searchable Terms for Rps6ka2 purchase	MBS3237552 is a blocking peptide targeting Rps6ka2. Also known as Rps6ka2 Peptide - C-terminal region. Reactive in Mouse, Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Rps6ka2. It may not necessarily be applicable to this product.

NCBI GI #	6755374
NCBI GeneID	20112
NCBI Accession #	NP_035429
UniProt Primary Accession #	Q9WUT3
UniProt Related Accession #	Q9WUT3
GenBank Nucleotide #	NM_011299
NCBI Official Full Name	ribosomal protein S6 kinase alpha-2
NCBI Official Synonym Full Names	ribosomal protein S6 kinase, polypeptide 2

NCBI Official Symbol	Rps6ka2
NCBI Official Synonym Symbols	Rsk3; 90kDa; p90rsk; pp90rsk; D17Wsu134e; Rps6ka-rs1
UniProt Protein Name	Ribosomal protein S6 kinase alpha-2
UniProt Synonym Protein Names	90 kDa ribosomal protein S6 kinase 2; p90-RSK 2; p90RSK2; MAP kinase-activated protein kinase 1c; MAPK-activated protein kinase 1c; MAPKAP kinase 1c; MAPKAPK-1c; Protein-tyrosine kinase Mpk-9; Ribosomal S6 kinase 3; RSK-3; pp90RSK3
Protein Family	Ribosomal protein S6 kinase
UniProt Gene Name	Rps6ka2
UniProt Synonym Gene Names	Mapkapk1c; Rsk3; S6K-alpha-2; p90-RSK 2; p90RSK2; MAPK-activated protein kinase 1c; MAPKAP kinase 1c; MAPKAPK-1c; RSK-3
UniProt Entry Name	KS6A2_MOUSE
NCBI Protein Information	ribosomal protein S6 kinase alpha-2
UniProt Comments for Rps6ka2	Function: Serine/threonine-protein kinase that acts downstream of ERK (MAPK1/ERK2 and MAPK3/ERK1) signaling and mediates mitogenic and stress-induced activation of transcription factors, regulates translation, and mediates cellular proliferation, survival, and differentiation. May function as tumor suppressor in epithelial ovarian cancer cells By similarity. Catalytic activity: ATP + a protein = ADP + a phosphoprotein. Cofactor: Magnesium By similarity. Enzyme regulation: Upon extracellular signal or mitogen stimulation, phosphorylated at Thr-570 in the C-terminal kinase domain (CTKD) by MAPK1/ERK2 and MAPK3/ERK1. The activated CTKD then autophosphorylates Ser-377, allowing binding of PDPK1, which in turn phosphorylates Ser-218 in the N-terminal kinase domain (NTDK) leading to the full activation of the protein and subsequent phosphorylation of the substrates by the NTKD. Subunit structure: Forms a complex with either MAPK1/ERK2 or MAPK3/ERK1 in quiescent cells. Transiently dissociates following mitogenic stimulation By similarity. Subcellular location: Nucleus By similarity. Cytoplasm By similarity. Post-translational modification: Activated by phosphorylation at Ser-218 by PDPK1. Autophosphorylated on Ser-377, as part of the activation process. May be phosphorylated at Thr-356 and Ser-360 by MAPK1/ERK2 and MAPK3/ERK1 By similarity.N-terminal myristoylation results in an activated kinase in the absence of added growth factors By similarity. Sequence similarities: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily.Contains 1 AGC-kinase C-terminal domain.Contains 2 protein kinase domains.
Research Articles on Rps6ka2	**1.** We confirmed that Raf1(L613V) knock-in confers a NS-like phenotype, including cardiac hypertrophy. Active RSK3 was increased in Raf1(L613V) mice. Constitutive RSK3 gene deletion prevented the Raf1(L613V)-dependent concentric growth in width of the cardiac myocyte and attenuated cardiac hypertrophy in female mice.

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