RPS6KA2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Rps6ka2, Polyclonal Antibody
Full Product Name	Rps6ka2, NT (Rps6ka2, Mapkapk1c, Rsk3, Ribosomal protein S6 kinase alpha-2, 90kD ribosomal protein S6 kinase 2, MAP kinase-activated protein kinase 1c, Protein-tyrosine kinase Mpk-9, Ribosomal S6 kinase 3, pp90RSK3) (MaxLight 550)
Product Gene Name	anti-Rps6ka2 antibody
Product Synonym Names	Rps6ka2; Mapkapk1c; Rsk3; Ribosomal protein S6 kinase alpha-2; 90kD ribosomal protein S6 kinase 2; MAP kinase-activated protein kinase 1c; Protein-tyrosine kinase Mpk-9; Ribosomal S6 kinase 3; pp90RSK3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	90
Chromosome Location	Chromosome: 17; NC_000083.6 (7088971..7303315). Location: 17 F4; 17 4.7 cM
3D Structure	ModBase 3D Structure for Q9WUT3
Immunogen	Mouse Rps6ka2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 190-218 amino acids from the N-terminal region of Mouse Rps6ka2.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-Rps6ka2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Rps6ka2 antibody	Western Blot (WB), FLISA
Application Notes for anti-Rps6ka2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-Rps6ka2 antibody	Serine/threonine kinase that may play a role in mediating the growth-factor and stress induced activation of the transcription factor CREB (By similarity).
Product References and Citations for anti-Rps6ka2 antibody	Bae, G.U., et al. Mol. Biol. Cell 20(23):4920-4931(2009). Fischer, M., et al. Mol. Cell. Neurosci. 42(2):134-141(2009). Cho, Y.Y., et al. Cancer Res. 67(17):8104-8112(2007). Panasyuk, G., et al. J. Biol. Chem. 281(42):31188-31201(2006). Maekawa, N., et al. Circulation 113(21):2516-2523(2006).

Other Notes	Small volumes of anti-Rps6ka2 antibody 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	MBS6343926 is an antibody targeting Rps6ka2. Also known as Rps6ka2, NT (Rps6ka2, Mapkapk1c, Rsk3, Ribosomal protein S6 kinase alpha-2, 90kD ribosomal protein S6 kinase 2, MAP kinase-activated protein kinase 1c, Protein-tyrosine kinase Mpk-9, Ribosomal S6 kinase 3, pp90RSK3) (MaxLight 550). Reactive in Mouse. Host: Rabbit.

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_035429.1
UniProt Primary Accession #	Q9WUT3
UniProt Secondary Accession #	Q9D2C0
UniProt Related Accession #	Q9WUT3
GenBank Nucleotide #	NM_011299.4
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; RSK-3; p90RSK2; pp90RSK3; p90-RSK 2; MAPKAPK-1c; S6K-alpha 2; S6K-alpha-2; MAPKAP kinase 1c; ribosomal S6 kinase 3; protein-tyrosine kinase Mpk-9; MAPK-activated protein kinase 1c; 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.** RSK3 is required for the induction of interstitial cardiac fibrosis in alpha-tropomyosin Glu180Gly transgenic mice.
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