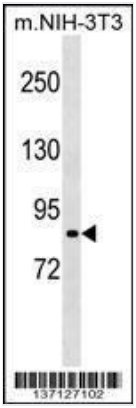
RPS6KA2 Antibody – Rabbit Polyclonal

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)
Product Gene Name	anti-RPS6KA2 antibody
Product Synonym Names	Anti -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)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Mouse
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	83,239 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (166822854..167275948, complement). Location: 6q27
OMIM	601685
3D Structure	ModBase 3D Structure for Q15349
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.
Product Categories/Family for anti-RPS6KA2 antibody	Antibodies; Abs to Protein Kinases
Applications Tested/Suitable for anti-RPS6KA2 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-RPS6KA2 antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500
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).
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	MBS6012940 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). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-RPS6KA2 antibody
Mouse Rps6ka2 Antibody (N-term) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the Rps6ka2 antibody detected the Rps6ka2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPS6KA2. It may not necessarily be applicable to this product.

NCBI GI #	55743136
NCBI GeneID	6196
NCBI Accession #	NP_001006933.1
UniProt Primary Accession #	Q15349
UniProt Secondary Accession #	Q15419; Q59GJ3; Q5TI68; Q96J38; Q9UJN5; B3KTK9
UniProt Related Accession #	Q15349
GenBank Nucleotide #	NM_001006932.1
NCBI Official Full Name	ribosomal protein S6 kinase alpha-2 isoform b
NCBI Official Synonym Full Names	ribosomal protein S6 kinase, 90kDa, polypeptide 2
NCBI Official Symbol	RPS6KA2
NCBI Official Synonym Symbols	RSK; HU-2; RSK3; p90-RSK3; pp90RSK3; MAPKAPK1C; S6K-alpha; S6K-alpha2
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; 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_HUMAN
NCBI Protein Information	ribosomal protein S6 kinase alpha-2; RSK-3; p90RSK2; p90-RSK 2; MAPKAPK-1c; S6K-alpha-2; MAPKAP kinase 1c; ribosomal S6 kinase 3; MAPK-activated protein kinase 1c; ribosomal protein S6 kinase alpha 2; 90 kDa ribosomal protein S6 kinase 2; MAP kinase-activated protein kinase 1c
NCBI Summary for RPS6KA2	This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 non-identical 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 RPS6KA2	RSK3: 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. Protein type: Protein kinase, Ser/Thr (non-receptor); Protein kinase, AGC; Kinase, protein; Translation; Tumor suppressor; EC 2.7.11.1; AGC group; RSK family; RSK subfamily Chromosomal Location of Human Ortholog: 6q27 Cellular Component: nucleoplasm; nuclear membrane; cytoplasm; spindle; cytosol; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; protein serine/threonine/tyrosine kinase activity; magnesium ion binding; ribosomal protein S6 kinase activity; ATP binding Biological Process: axon guidance; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; heart development; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; signal transduction; brain renin-angiotensin system; oocyte maturation; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; negative regulation of cell cycle; MyD88-dependent toll-like receptor signaling pathway; toll-like receptor 5 signaling pathway; synaptic transmission; negative regulation of cell proliferation; peptidyl-serine phosphorylation; heart contraction; negative regulation of meiosis; toll-like receptor signaling pathway; innate immune response; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway
Research Articles on RPS6KA2	**1.** Overexpression of RSK3 or RSK4 supports tumor cell proliferation upon PI3K inhibition both in vitro and in vivo therby contributing to drug resistance.
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