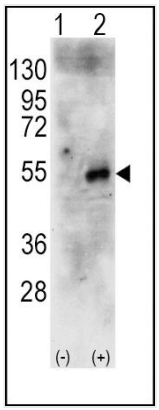
RPS6KB2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RPS6KB2, Polyclonal Antibody
Full Product Name	RPS6KB2, ID (Ribosomal Protein S6 Kinase beta 2, S6K-beta-2, S6K2, 70kD Ribosomal Protein S6 Kinase 2, p70-S6K 2, P70S6K2, p70 Ribosomal S6 Kinase beta, p70 S6 Kinase beta, p70 S6K-beta, p70 S6KB, S6K-beta, p70-beta, S6 Kinase-related Kinase, SRK, Serine/
Product Gene Name	anti-RPS6KB2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Rat, Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes rat RPS6KB2. Species Crossreactivity: human.
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	53.483
OMIM	608939
3D Structure	ModBase 3D Structure for Q9UBS0
Immunogen	Synthetic peptide selected from the Center region of rat RPS6KB2 (KLH).
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-RPS6KB2 antibody	Antibodies; Protein Kinases; Ribosomal
Applications Tested/Suitable for anti-RPS6KB2 antibody	Western Blot (WB), FLISA
Application Notes for anti-RPS6KB2 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RPS6KB2 antibody	MBS6497736 is an antibody targeting RPS6KB2. Also known as RPS6KB2, ID (Ribosomal Protein S6 Kinase beta 2, S6K-beta-2, S6K2, 70kD Ribosomal Protein S6 Kinase 2, p70-S6K 2, P70S6K2, p70 Ribosomal S6 Kinase beta, p70 S6 Kinase beta, p70 S6K-beta, p70 S6KB, S6K-beta, p70-beta, S6 Kinase-related Kinase, SRK, Serine/. Reactive in Rat, Human. Host: Rabbit.
Product References and Citations for anti-RPS6KB2 antibody	1. Strausberg, R.L., et al., Proc. Natl. Acad. Sci. USA 99(26):16899-16903 (2002). 2. Lee-Fruman, K.K., et al., Oncogene 18(36):5108-5114 (1999). 3. Saitoh, M., et al., Biochem. Biophys. Res. Commun. 253(2):470-476 (1998). 4. Gout, I., et al., J. Biol. Chem. 273(46):30061-30064 (1998).
Other Notes	Small volumes of anti-RPS6KB2 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.



Western Blot (WB) of anti-RPS6KB2 antibody
Western blot analysis of RPS6KB2 (arrow) using rabbit polyclonal RPS6KB2 Antibody (Center) (RB11689). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the human RPS6KB2 gene (Lane 2) (Origene Technologies).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RPS6KB2. It may not necessarily be applicable to this product.

NCBI GI #	55953115
NCBI Accession #	NP_001007072
UniProt Primary Accession #	Q9UBS0
UniProt Protein Name	Ribosomal protein S6 kinase beta-2
UniProt Synonym Protein Names	70 kDa ribosomal protein S6 kinase 2; P70S6K2; p70-S6K 2; S6 kinase-related kinase; SRK; Serine/threonine-protein kinase 14B; p70 ribosomal S6 kinase beta
Protein Family	Ribosomal protein S6 kinase
UniProt Gene Name	RPS6KB2
UniProt Synonym Gene Names	STK14B; S6K-beta-2; S6K2; P70S6K2; p70-S6K 2; SRK; S6K-beta; p70 S6 kinase beta; p70 S6K-beta; p70 S6KB; p70-beta
UniProt Entry Name	KS6B2_HUMAN

UniProt Comments for RPS6KB2	P70S6KB: an AGC kinase of the RSK family that is required for cell growth and G1 cell cycle progression. Is phosphorylated and activated by mTOR in mitogenic pathways downstream of phosphoinositide 3 kinase (PI3K). Phosphorylates the S6 protein of the 40S ribosomal subunit and is involved in translational control of 5' oligopyrimidine tract mRNAs. Activity is controlled by multiple phosphorylation events located within the catalytic, linker and pseudosubstrate domains. Mouse knockout shows symptoms of insulin resistance, and increased insulin senstivity, resulting in protection against diet-induced obesity. Protein expression and activation upregulated in colon adenocarcinoma cell lines. Increased expression in breast cancer correlated with poor survival. Selectively amplified and overexpressed within the 17q23 breast cancer amplicon. Two isoforms produced by alternative initiation have been reported. Protein type: Protein kinase, AGC; EC 2.7.11.1; Translation; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; AGC group; RSK family; p70 subfamily Chromosomal Location of Human Ortholog: 11q13.2 Cellular Component: nucleoplasm; cytoplasm Molecular Function: protein serine/threonine kinase activity; ribosomal protein S6 kinase activity; peptide binding; ATP binding; protein kinase activity Biological Process: epidermal growth factor receptor signaling pathway; positive regulation of translational initiation; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; translation; nerve growth factor receptor signaling pathway; protein kinase B signaling cascade; innate immune response; signal transduction; protein amino acid phosphorylation
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