MSK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MSK1, Polyclonal Antibody
Full Product Name	MSK1, Phosphorylated (Ser360) (Ribosomal Protein S6 Kinase alpha 5, Nuclear Mitogen-and Stress-activated Protein Kinase 1, 90kD Ribosomal Protein S6 Kinase 5, RSK-like Protein Kinase, RLSK, S6K-alpha-5, RPS6KA5, MSK) (Azide free) (HRP)
Product Gene Name	anti-MSK1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human MSK1 when phosphorylated at Ser360.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	89.865
OMIM	603607
3D Structure	ModBase 3D Structure for O75582
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Ser360 of human MSK1 (KLH).
Conjugate	HRP
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-MSK1 antibody	Antibodies; Protein Kinases; Ribosomal
Applications Tested/Suitable for anti-MSK1 antibody	Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-MSK1 antibody	IHC: 1:50-1:100 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-MSK1 antibody	MBS6488614 is an antibody targeting MSK1. Also known as MSK1, Phosphorylated (Ser360) (Ribosomal Protein S6 Kinase alpha 5, Nuclear Mitogen-and Stress-activated Protein Kinase 1, 90kD Ribosomal Protein S6 Kinase 5, RSK-like Protein Kinase, RLSK, S6K-alpha-5, RPS6KA5, MSK) (Azide free) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-MSK1 antibody	1. Beausoleil, S.A., et al., Proc. Natl. Acad. Sci. USA 101(33):12130-12135 (2004). 2. Abecassis, L., et al., J. Biol. Chem. 279(29):30474-30479 (2004). 3. Zhang, Y., et al., Carcinogenesis 25(7):1165-1175 (2004). 4. Zhang, Y., et al., J. Biol. Chem. 279(21):21866-21872 (2004). 5. Li, Y., et al., J. Biol. Chem. 279(2):970-979 (2004).

Other Notes	Small volumes of anti-MSK1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MSK1. It may not necessarily be applicable to this product.

NCBI GI #	32528295
NCBI GeneID	9252
NCBI Accession #	NP_004746
UniProt Primary Accession #	O75582
UniProt Related Accession #	O75582
GenBank Nucleotide #	NP_004746.2
NCBI Official Full Name	ribosomal protein S6 kinase alpha-5 isoform a
NCBI Official Synonym Full Names	ribosomal protein S6 kinase A5
NCBI Official Symbol	RPS6KA5
NCBI Official Synonym Symbols	MSK1; RLPK; MSPK1
UniProt Protein Name	Ribosomal protein S6 kinase alpha-5
UniProt Synonym Protein Names	90 kDa ribosomal protein S6 kinase 5; Nuclear mitogen- and stress-activated protein kinase 1; RSK-like protein kinase
UniProt Gene Name	RPS6KA5
UniProt Synonym Gene Names	MSK1; S6K-alpha-5; RSKL
UniProt Entry Name	KS6A5_HUMAN
NCBI Protein Information	ribosomal protein S6 kinase alpha-5
UniProt Comments for MSK1	MSK1: an AGC kinase of the RSK family. Has two kinase domains connected by a regulatory linker region. Enzyme activity requires the presence of both kinase domains. Is phosphorylated and activated by Erk as well as p38 MAPK in response to growth factors and cellular stress. Protein type: Kinase, protein; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.1; Protein kinase, AGC; AGC group; RSK family; MSK subfamily Chromosomal Location of Human Ortholog: 14q31-q32.1 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; magnesium ion binding; ATP binding; protein kinase activity Biological Process: axon guidance; nerve growth factor receptor signaling pathway; positive regulation of histone phosphorylation; histone phosphorylation; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; protein amino acid phosphorylation; activation of NF-kappaB transcription factor; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; regulation of transcription, DNA-dependent; inflammatory response; toll-like receptor 4 signaling pathway; epidermal growth factor receptor signaling pathway; MyD88-independent toll-like receptor signaling pathway; activation of CREB transcription factor; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; negative regulation of cytokine production; toll-like receptor signaling pathway; innate immune response; positive regulation of histone acetylation; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; negative regulation of transcription, DNA-dependent

Research Articles on MSK1	**1.** show that expression of nuclear PKCdelta activates ERK and MSK1, that ERK activation is required for MSK1 activation, and that both ERK and MSK1 activation are required for apoptosis
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