

MSK1 Polyclonal Antibody | anti-MSK1 antibody

Anti-MSK1 Antibody

CATALOG # AAA46253	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunocytochemistry, Immunohistochemistry, Western Blot
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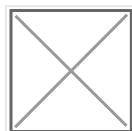
PRODUCT SYNONYMS

MSK1; Polyclonal Antibody; Anti-MSK1 Antibody; Ribosomal protein S6 kinase alpha-5; 90 kDa ribosomal protein S6 kinase 5; KS6A5_HUMAN; MGC1911; Mitogen and stress activated protein kinase 1; MSPK1; Nuclear Mitogen And Stress Activated Protein Kinase 1; Nuclear mitogen- and stress-activated protein kinase 1; Ribosomal protein S6 kinase 90kD polypeptide 5; Ribosomal protein S6 kinase 90kDa; Ribosomal protein S6 kinase 90kDa polypeptide 5; Ribosomal Protein S6 Kinase Alpha 5; RLPK; RPS6KA5; RSK Like Protein Kinase; RSK-like protein kinase; RSKL; S6K alpha 5; S6K-alpha-5; ribosomal protein S6 kinase; 90kDa; polypeptide 5; anti-MSK1 antibody

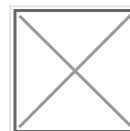
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	802
Applicable Applications for anti-MSK1 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human MSK1 recombinant protein (Position: V540-Q665). Human MSK1 shares 98% amino acid (aa) sequence identity with mouse MSK1.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

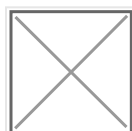
IMAGES


IHC (Immunohistochemistry)

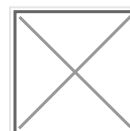
Anti- MSK1 Picoband antibody, AAA46253, IHC(P)IHC(P): Human Placenta Tissue


IHC (Immunohistochemistry)

Anti- MSK1 Picoband antibody, AAA46253, IHC(P)IHC(P): Rat Brain Tissue


IHC (Immunohistochemistry)

Anti- MSK1 Picoband antibody, AAA46253, IHC(P)IHC(P): Mouse Cardiac Muscle Tissue


WB (Western Blot)

Anti- MSK1 Picoband antibody, AAA46253, Western blotting
All lanes: Anti MSK1 (AAA46253) at 0.5ug/ml
Lane 1: Human Placenta Tissue Lysate at 50ug
Lane 2: Rat Brain Tissue Lysate at 50ug
Lane 3: JURKAT Whole Cell Lysate at 40ug
Lane 4: HELA Whole Cell Lysate at 40ug
Lane 5: PANC Whole Cell Lysate at 40ug
Lane 6: A549 Whole Cell Lysate at 40ug
Lane 7: HEPG2 Whole Cell Lysate at 40ug
Predicted bind size: 90KD
Observed bind size: 90KD



WB (Western Blot)

Anti- MSK1 Picoband antibody, AAA46253, Western blottingAll lanes: Anti MSK1 (AAA46253)
at 0.5ug/mlWB: Recombinant Human MSK1 Protein 0.5ngPredicted bind size: 50KDObserved
bind size: 50KD

ADDITIONAL INFORMATION

Related Product Information for anti-MSK1 antibody	Description: Rabbit IgG polyclonal antibody for Ribosomal protein S6 kinase alpha-5(RPS6KA5) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat. Background: Ribosomal protein S6 kinase alpha-5, also known as MSK1, is an enzyme that in humans is encoded by the RPS6KA5 gene. It belongs to the AGC family of kinases. MSK1 gene is mapped to chromosome 14q31-q32. Northern blot analysis indicated that MSK1 was expressed as a 4-kb mRNA in all tissues tested, with the highest levels of expression in brain, muscle, and placenta. MSK1 was activated in vitro and in vivo by either ERK or SAPK2 proteins. It has been found that MSK1, rather than MAPKAP-K1 or MAPKAP-K2/K3, mediates activation of the cAMP response element-binding protein and activating transcription factor-1 by either growth factors or stress signals.
References	1. Deak, M., Clifton, A. D., Lucocq, J. M., Alessi, D. R. Mitogen- and stress-activated protein kinase-1 (MSK1) is directly activated by MAPK and SAPK2/p38, and may mediate activation of CREB. EMBO J. 17: 4426-4441, 1998. 2. Jiang, C., Yu, L., Tu, Q., Zhao, Y., Zhang, H., Zhao, S. Assignment of a member of the ribosomal protein S6 kinase family, RPS6KA5, to human chromosome 14q31-q32.1 by radiation hybrid mapping. Cytogenet. Cell Genet. 87: 261-261, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	32528295
NCBI GeneID	9252
NCBI Accession #	NP_004746.2
NCBI GenBank Nucleotide #	NM_004755.3
UniProt Accession #	O75582; O95316; Q96AF7; B7Z2Y5
Molecular Weight	81,780 Da
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
NCBI Protein Information	ribosomal protein S6 kinase alpha-5
UniProt Protein Name	Ribosomal protein S6 kinase alpha-5
UniProt Gene Name	RPS6KA5
UniProt Synonym Gene Names	MSK1; S6K-alpha-5; RSKL
UniProt Entry Name	KS6A5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.