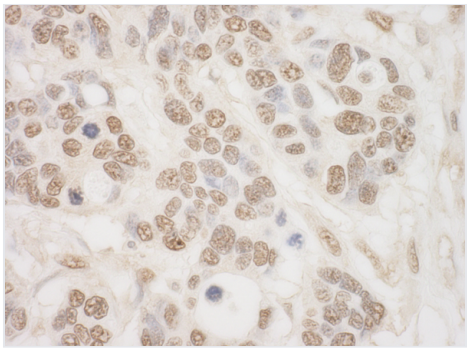
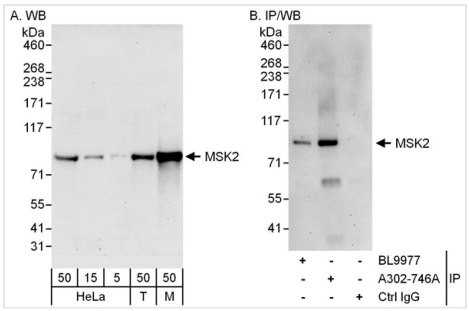
MSK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MSK2, Polyclonal Antibody
Full Product Name	Rabbit anti-MSK2 Antibody, Affinity Purified
Product Gene Name	anti-MSK2 antibody
Product Synonym Gene Name	RPS6KA4
Product Synonym Names	MSK2; RSK-B; RSKB; S6K-alpha-4; ribosomal protein S6 kinase, 90kDa, polypeptide 4; ribosomal protein S6 kinase alpha-4; nuclear mitogen- and stress-activated protein kinase 2; mitogen- and stress-activated protein kinase 2; 90 kDa ribosomal protein S6 kinase 4; ribosomal protein kinase B; Ribosomal protein S6 kinase alpha-4; ribosomal protein S6 kinase A4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. Whole IgG. Tris-buffered Saline containing 0.1% BSA and 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	200ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
OMIM	603606
3D Structure	ModBase 3D Structure for O75676
Immunogen	Between 722 and C-terminus
Conjugation	Unconjugated
Product Categories/Family for anti-MSK2 antibody	Primary Antibodies
Applications Tested/Suitable for anti-MSK2 antibody	Western Blot (WB), Immunoprecipitation (IP), Immunohistochemistry (IHC)
Application Notes for anti-MSK2 antibody	WB: 1:2000-1:10,000 IP: 6ug/mg lysate IHC: 1:100-1:500. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.
Related Product Information for anti-MSK2 antibody	MSK1 is a serine/threonine kinase required for the mitogen or stress-induced phosphorylation of the transcription factors CREB (cAMP response element-binding protein) and ATF1 (activating transcription factor-1). MSK1 Directly represses transcription via phosphorylation of 'Ser-1' of histone H2A. MSK1 also phosphorylates 'Ser-10' of histone H3 in response to mitogenics, stress stimuli and epidemal growth-factor (EGF), which results in the transcriptional activation of several immediate early genes, including proto-oncogenes c-fos/FOS and c-jun/JUN. [taken from the Universal Protein Resource (UniProt) www.uniprot.org/uniprot/O75582].
Other Notes	Small volumes of anti-MSK2 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 MSK2 purchase	MBS3903098 is an antibody targeting MSK2. Also known as Rabbit anti-MSK2 Antibody, Affinity Purified. Reactive in Human, Mouse. Host: Rabbit.



Immunohistochemistry (IHC) of anti-MSK2 antibody
Detection of human MSK2 by immunohistochemistry. Sample: FFPE section of human breast carcinoma. Antibody: Affinity purified rabbit anti-MSK2 (Cat. No. MBS3903098) used at a dilution of 1:200 (1ug/ml) Detection: DAB



Western Blot (WB) of anti-MSK2 antibody
Detection of human and mouse MSK2 by western blot (h&m) and immunoprecipitation (h). Samples: Whole cell lysate from HeLa (5, 15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded), HEK293T (T; 50 ug), and mouse NIH 3T3 (M; 50 ug) cells. Antibodies: Affinity purified rabbit anti-MSK2 antibody MBS3903098 used for WB at 0.04 ug/ml (A) and 1 ug/ml (B) and used for IP at 3 ug/mg lysate. MSK2 was also immunoprecipitated by rabbit anti-MSK2 antibody BL9977, which recognizes an upstream epitope. Detection: Chemiluminescence with exposure times of 30 seconds (A and B).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MSK2. It may not necessarily be applicable to this product.

NCBI GeneID	8986
NCBI Accession #	NP_003933.1
UniProt Primary Accession #	O75676
UniProt Protein Name	Ribosomal protein S6 kinase alpha-4
UniProt Synonym Protein Names	90 kDa ribosomal protein S6 kinase 4; Nuclear mitogen- and stress-activated protein kinase 2; Ribosomal protein kinase B
UniProt Gene Name	RPS6KA4
UniProt Synonym Gene Names	MSK2; S6K-alpha-4; RSKB
UniProt Entry Name	KS6A4_HUMAN
UniProt Comments for MSK2	MSK2: an AGC kinase of the RSK family. Has two kinase domains connected by a regulatory linker region. Phosphorylates H3 and HMG-14 in response to growth factors and cellular stress. Protein type: EC 2.7.11.1; Protein kinase, AGC; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); AGC group; RSK family; MSK subfamily Chromosomal Location of Human Ortholog: 11q11-q13 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: protein serine/threonine kinase activity; protein binding; mitogen-activated protein kinase p38 binding; magnesium ion binding; ribosomal protein S6 kinase activity; ATP binding Biological Process: axon guidance; regulation of transcription, DNA-dependent; positive regulation of histone phosphorylation; histone phosphorylation; negative regulation of cytokine production; activation of CREB transcription factor; positive regulation of histone acetylation; positive regulation of transcription from RNA polymerase II promoter; inflammatory response; protein amino acid phosphorylation; activation of NF-kappaB transcription factor
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