

MSK1 (phospho Ser376) Polyclonal Antibody

Catalog No: YP0517

Reactivity: Human; Mouse

Applications: WB;IHC

Target: MSK1

Fields: >>MAPK signaling pathway;>>Adrenergic signaling in cardiomyocytes;>>TNF

signaling pathway;>>Circadian entrainment;>>Neurotrophin signaling

pathway;>>Shigellosis;>>Pathways in cancer;>>MicroRNAs in cancer;>>Bladder

cancer

Gene Name: RPS6KA5

Protein Name: Ribosomal protein S6 kinase alpha-5

O75582

Q8C050

Human Gene Id: 9252

Human Swiss Prot

No:

Mouse Gene Id: 73086

Mouse Swiss Prot

No:

Immunogen : The antiserum was produced against synthesized peptide derived from human

MSK1 around the phosphorylation site of Ser376. AA range:343-392

Specificity: Phospho-MSK1 (S376) Polyclonal Antibody detects endogenous levels of MSK1

protein only when phosphorylated at S376.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500-2000;IHC 1:50-300

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

1/4



chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 90kD

Cell Pathway: Insulin Receptor; Regulates Angiogenesis;

MAPK_ERK_Growth;MAPK_G_Protein; B Cell Receptor; AMPK

Background: catalytic activity:ATP + a protein = ADP + a

phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Appears to be activated by multiple phosphorylations on threonine and serine residues. ERK1/2 and MAPK14/p38-alpha may play a role in this process.,function: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). Essential role in the control of RELA transcriptional activity in response to TNF. Directly represses transcription via phosphorylation of 'Ser-1' of histone H2A. 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. May also phosphorylate 'Ser-28' of histone H3. Mediates the mitogen- and stress-induced phosphorylation of high mobility group protein 14 (HMG-14)., miscellaneous: Enzyme activity requires the presence of both kinase domains., PTM:Ser-376 and Thr-581 phosphorylation is required for kinase activity. Ser-376 and Ser-212 are autophosphorylated by the C-terminal kinase domain, and their phosphorylation is essential for the catalytic activity of the N-terminal kinase domain., similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. S6 kinase subfamily., similarity: Contains 1 AGC-kinase C-terminal domain., similarity: Contains 2 protein kinase domains., subcellular location:Predominantly nuclear. Partially cytoplasmic., subunit:Forms a complex with either ERK1 or ERK2 in guiescent cells which transiently dissociates following mitogenic stimulation. Also associates with MAPK14/p38-alpha. Activated RPS6KA5 associates with and phosphorylates the NF-kappa-B p65 subunit RELA., tissue specificity: Widely expressed with high levels in heart, brain

Function : catalytic activity:ATP + a protein = ADP + a

phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Appears to be activated by multiple phosphorylations on threonine and serine residues. ERK1/2 and MAPK14/p38-alpha may play a role in this process.,function: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). Essential role in the control of RELA transcriptional activity in response to TNF. Directly represses transcription via phosphorylation of 'Ser-1' of histone H2A. Phosphorylates 'Ser-10' of histone H3

and placenta. Less abundant in lung, kidney and liver.,

2/4



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. May also phosphorylate 'Ser-28'

Subcellular Location:

Nucleus. Cytoplasm. Predominantly nuclear. Exported into cytoplasm in

response to glucocorticoid.

Expression: Widely expressed with high levels in heart, brain and placenta. Less abundant in

lung, kidney and liver.

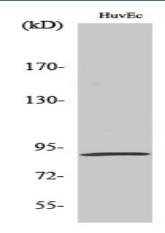
Tag: orthogonal

Sort: 10289

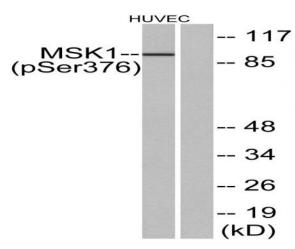
No2: 9591S

No4:

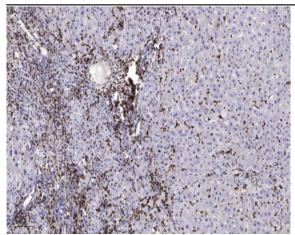
Products Images



Western Blot analysis of various cells using Phospho-MSK1 (S376) Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysates from HUVEC cells treated with PMA 125ng/ml 30', using MSK1 (Phospho-Ser376) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).