

MSK1 (phospho Ser360) (PT0174R) PT® Rabbit mAb

Catalog No: YM8106

Reactivity: Human; Mouse; Rat;

Applications: WB;IF;IP;ELISA

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

Human Gene Id: 9252

Human Swiss Prot

No:

075582

Mouse Gene Id: 73086

Mouse Swiss Prot

Q8C050

No:

Specificity: endogenous

Formulation: PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Source : Monoclonal, rabbit, IgG, Kappa

Dilution: WB 1:1000-1:5000,IF 1:200-1:1000,ELISA 1:5000-1:20000,IP 1:50-1:200,

Purification: Protein A

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

Molecularweight: 90kD

1/3



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

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 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:

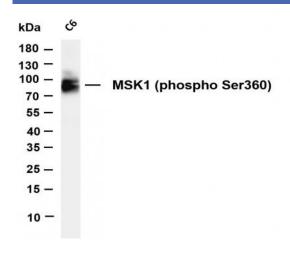
Cytoplasm, Nuclear

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



Expression: lung, kidney and liver.

Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-MSK1 (phospho Ser360) (PT0174R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: C6 Predicted band size: 90kDa Observed band size: 90kDa