

MSK1 (Phospho Ser360) (PT0174R) PT™ Rabbit mAb

CatalogNo: YM8106 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IF, IP, ELISA

MW

- 90kD (Calculated)
90kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

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

Basic Information

Clonality Monoclonal**Clone Number** PT0174R

Immunogen Information

Immunogen The specific immunogen used to produce this antibody is proprietary information.**Specificity** This antibody detects endogenous levels of MSK1 only when phosphorylated at Ser360. This antibody does not recognize phosphorylated at other sites.

| Target Information

Gene name RPS6KA5

Protein Name Ribosomal protein S6 kinase alpha-5

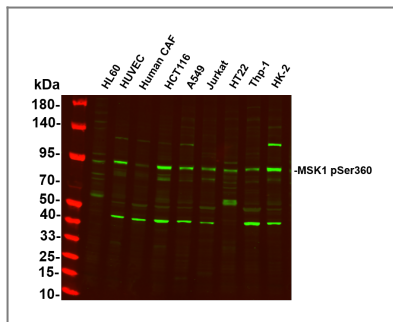
Organism	Gene ID	UniProt ID
Human	9252 ;	O75582 ;
Mouse	73086 ;	Q8C050 ;

Cellular Localization Cytoplasm ,Nuclear

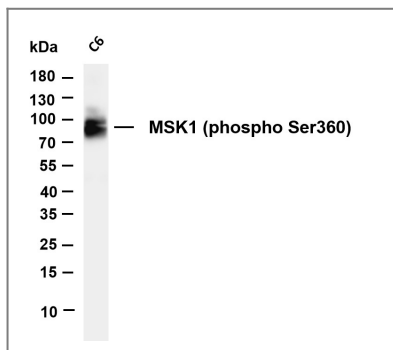
Tissue specificity Widely expressed with high levels in heart , brain and placenta. Less abundant in lung , kidney and liver.

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 epidermal 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 quiescent 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. ,

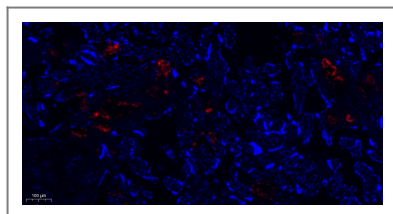
| Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C over night with a 1:2500 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody (Cat:RS23920) was used to detect the antibody. Lane1: HL60 - Human promyelocytic leukemia cell Lane2: HUVEC - Human umbilical vein endothelial cell Lane3: Human CAF - Human cancer-associated fibroblast Lane4: HCT116 - Human colorectal carcinoma Lane5: A549 - Human lung carcinoma Lane6: Jurkat - Human T lymphocyte leukemia Lane7: HT22 - Mouse hippocampal neuronal Lane8: Thp-1 - Human monocytic leukemia Lane9: HK-2 - Human proximal tubular epithelial



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-MSK1 (phospho Ser360) 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



Immunofluorescence analysis of human placenta. 1, primary antibody (red) was diluted at 1:200 (4°C, overnight). 2, AFour 594 (catalog: RS3611) labeled Secondary antibody was diluted at 1:300 (room temperature, 50min).

Contact information

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