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

CatalogNo: YM8106 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ICC/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
ICC/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

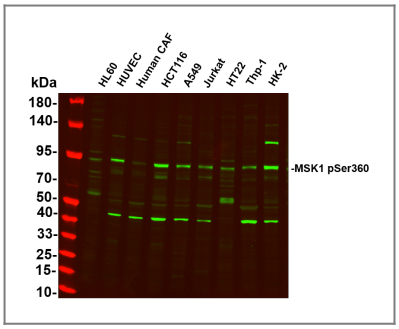
Organism	Gene ID	UniProt ID
Human	9252;	O75582;
Mouse	73086;	Q8C050;

Cellular Localization Cytoplasm ,Nuclear

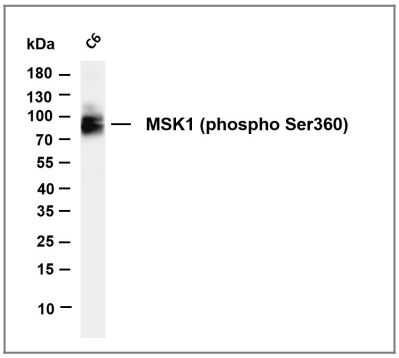
Tissue specificity Widely expressed with high levels in heart , brain and placenta. Less abundant in lung , kidney and liver.

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 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 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. ,

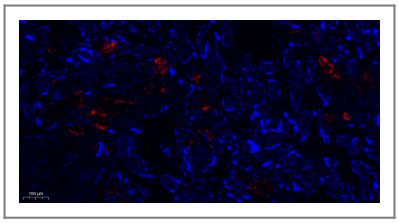
Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4℃ over night with a 1:2500 dilution . The Dilight 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℃,overnight). 2, AFlour 594(catalog: RS3611) labled Secondary antibody was diluted at 1:300(room temperature, 50min).

Contact information

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	877-594-3616 (Toll Free), 408-747-0185
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information: **MSK1 (Phospho Ser360) (PT0174R) PT™ Rabbit mAb**

For Research Use Only. Not for Use in Diagnostic Procedures.