

p38 MAPK (Phospho Thr180/Tyr182) (PT0995R) PT™ Rabbit mAb

CatalogNo: YM8704 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, IP, ELISA

MW

- 44kD (Calculated)
- 44kD (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

IHC 1:200-1:1000**WB 1:2000-1:10000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

Basic Information

Clonality Monoclonal**Clone Number** PT0995R

Immunogen Information

Specificity p38 MAPK (Phospho Thr180/Tyr182) Antibody detects endogenous levels of p38 MAPK protein only when phosphorylated at Thr180/Tyr182. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): EMTGyVA

| Target Information

Gene name MAPK14 CSBP CSBP1 CSBP2 CSPB1 MXI2 SAPK2A MAPK12 ERK6 SAPK3 MAPK13 PRKM13 SAPK4 MAPK11

Protein Name Mitogen-activated protein kinase 14;Mitogen-activated protein kinase 12;Mitogen-activated protein kinase 13;Mitogen-activated protein kinase 11

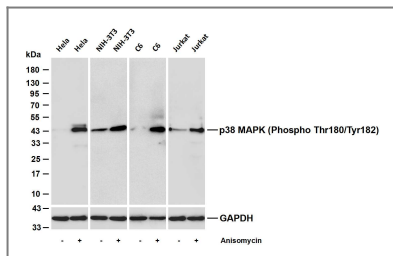
Organism	Gene ID	UniProt ID
Human	1432 ; 6300 ; 6300 ; 5600 ;	Q16539 , O15264 , P53778 , Q15759 ;
Mouse		O08911 ; Q9Z1B7 ; Q9WUI1 ;
Rat		Q63538 ; Q9WTY9 ;

Cellular Localization Cytoplasm, Nucleus

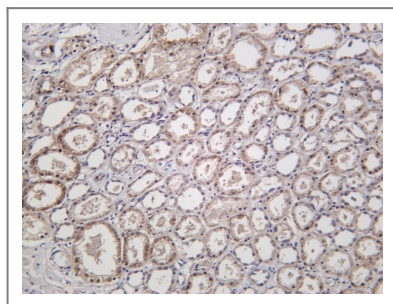
Tissue specificity Brain, heart, placenta, pancreas and skeletal muscle. Expressed to a lesser extent in lung, liver and kidney.

Function Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,Domain:The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.,enzyme regulation:Activated by threonine and tyrosine phosphorylation by either of two dual specificity kinases, MAP2K3 or MAP2K6, and potentially also MAP2K4. Inhibited by dual specificity phosphatases, such as DUSP1. Specifically inhibited by the binding of pyridinyl-imidazole compounds, which are cytokine-suppressive anti-inflammatory drugs (CSAID). Isoform Mxi2 is 100-fold less sensitive to these agents than the other isoforms and is not inhibited by DUSP1. Isoform Exip is not activated by MAP2K6.,Function:Responds to activation by environmental stress, pro-inflammatory cytokines and lipopolysaccharide (LPS) by phosphorylating a number of transcription factors, such as ELK1 and ATF2 and several downstream kinases, such as MAPKAPK2 and MAPKAPK5. Plays a critical role in the production of some cytokines, for example IL-6. May play a role in stabilization of EPO mRNA during hypoxic stress. Isoform Mxi2 activation is stimulated by mitogens and oxidative stress and only poorly phosphorylates ELK1 and ATF2. Isoform Exip may play a role in the early onset of apoptosis.,online information:P38 mitogen-activated protein kinases entry,PTM:Dually phosphorylated on Thr-180 and Tyr-182, which activates the enzyme.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Binds to a kinase interaction motif within the protein tyrosine phosphatase, PTPRR. This interaction retains MAPK14 in the cytoplasm and prevents nuclear accumulation. Interacts with SPAG9 (By similarity). Interacts with NP60 and FAM48A.,tissue specificity:Brain, heart, placenta, pancreas and skeletal muscle. Expressed to a lesser extent in lung, liver and kidney.,

| Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-p38 MAPK (Phospho Thr180/Tyr182) (PT0995R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: HeLa was treated with Anisomycin (250 ng/ml) for 30 minutes Lane 3: NIH-3T3 Lane 4: NIH-3T3 was treated with Anisomycin (25 µg/ml) for 30 minutes Lane 5: C6 Lane 6: C6 was treated with Anisomycin (25 µg/ml) for 30 minutes Lane 7: Jurkat Lane 8: Jurkat was treated with Anisomycin (6.6 µg/ml) for 30 minutes Predicted band size: 44kDa Observed band size: 44kDa



Human kidney was stained with anti-p38 MAPK (Phospho Thr180/Tyr182) (PT0995R) Rabbit antibody

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:
p38 MAPK (Phospho Thr180/Tyr182) (PT0995R) PT™ Rabbit mAb

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