Anti-p38 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013794

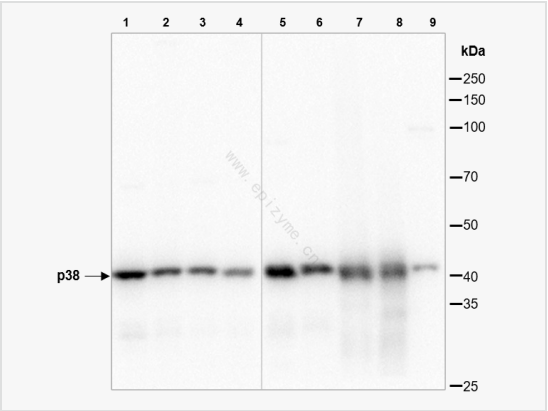
Product Information

Application	ELISA, WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100
Host	Rabbit
Clonality	Monoclonal
Clone No.	49C01B92
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human p38
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-p38 Rabbit mAb [49C01B92] is for research use only and not for use in diagnostic or therapeutic procedures.

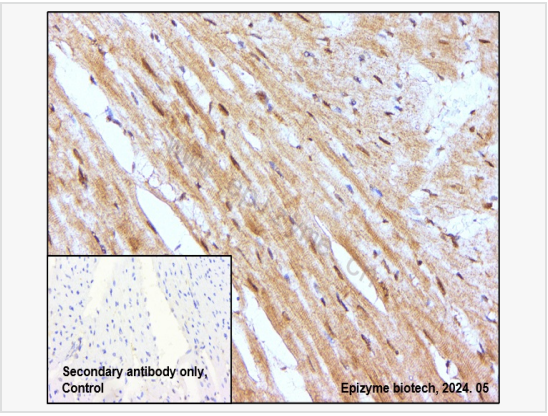
Protein Information

Synonyms	RK, CSBP, EXIP, Mxi2, CSBP1, CSBP2, CSPB1, PRKM14, PRKM15, SAPK2A, CSAID Binding Protein 1, CSAID binding protein, CSAID-binding protein, Cytokine suppressive anti-inflammatory drug-binding protein, MAP kinase 14, MAP kinase MXI2, MAP kinase p38 alpha, MAPK 14, MAX-interacting protein 2, Mitogen activated protein kinase p38 alpha, Mitogen-activated protein kinase 14, Mitogen-activated protein kinase p38 alpha, p38 ALPHA, p38 MAP kinase, p38 MAPK, p38 mitogen activated protein kinase, p38alpha Exip, Stress Activated Protein Kinase 2A.
Calculated MW	Calculated MW: 41 kDa; Observed MW: 41 kDa
Uniprot ID	Q16539
Gene ID	1432
Background	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

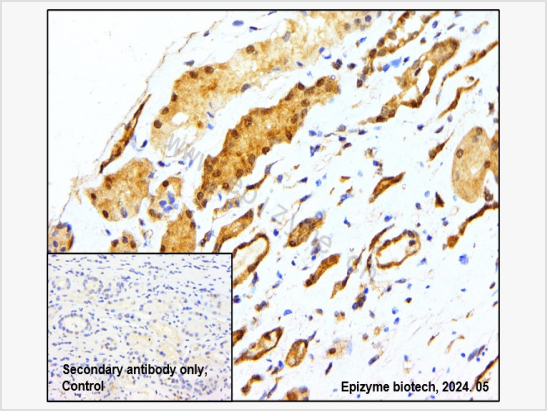
Validation Images



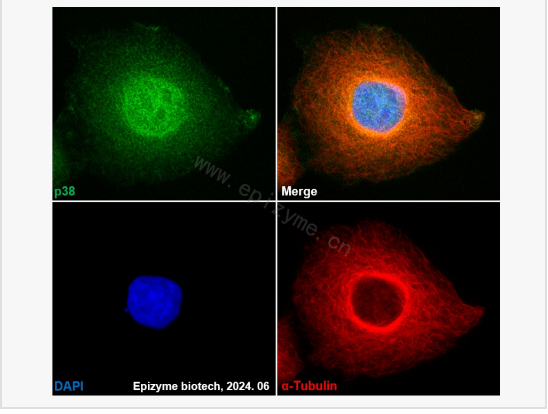
Western Blot - Anti-p38 Rabbit mAb [49C01B92]
All lanes: R013794 at 1:1,000 dilution
Lane 1: Jurkat (human T lymphocytic leukemia cell) whole cell lysatess
Lane 2: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysatess
Lane 3: T24 (human bladder cancer epithelial cell) whole cell lysatess
Lane 4: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates
Lane 5: RAW264.7 (mouse mononuclear macrophage leukemia epithelial cell)
Lane 6: SW620 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 7: Rat kidney whole tissue lysates
Lane 8: Rat spleen whole tissue lysates
Lane 9: Balb/c mouse brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 41 kDa
Observed band size: 41 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-p38 Rabbit mAb [49C01B92]
Sample: Paraformaldehyde-fixed, paraffin embedded rat heart tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013794 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-p38 Rabbit mAb [49C01B92]
Sample: Paraformaldehyde-fixed, paraffin embedded human renal cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013794 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-p38 Rabbit mAb [49C01B92]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013794 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).