Product Datasheet

p38 Rabbit mAb

Catalog No: #48644

Package Size: #48644-1 50ul #48644-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

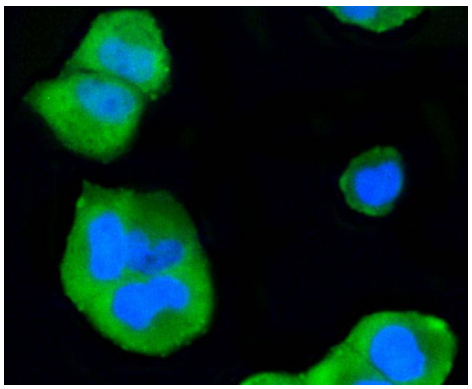
Description

Product Name	p38 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SR43-04
Purification	ProA affinity purified
Applications	WB, ICC/IF,IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	CSAID Binding Protein 1 antibody CSAID binding protein antibody CSAID-binding protein antibody Csaids binding protein antibody CSBP 1 antibody CSBP 2 antibody CSBP antibody CSBP1 antibody CSBP2 antibody CSPB1 antibody Cytokine suppressive anti-inflammatory drug-binding protein antibody EXIP antibody MAP kinase 14 antibody MAP kinase MXI2 antibody MAP kinase p38 alpha antibody MAPK 14 antibody MAPK14 antibody MAX interacting protein 2 antibody MAX-interacting protein 2 antibody Mitogen Activated Protein Kinase 14 antibody Mitogen activated protein kinase p38 alpha antibody Mitogen-activated protein kinase 14 antibody Mitogen-activated protein kinase p38 alpha antibody MK14_HUMAN antibody Mxi 2 antibody MXI2 antibody p38 ALPHA antibody p38 antibody p38 MAP kinase antibody p38 MAPK antibody p38 mitogen activated protein kinase antibody p38ALPHA antibody p38alpha Exip antibody PRKM14 antibody PRKM15 antibody RK antibody SAPK2A antibody
Accession No.	Swiss-Prot#:Q16539
Calculated MW	41 kDa
SDS-PAGE MW	40 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

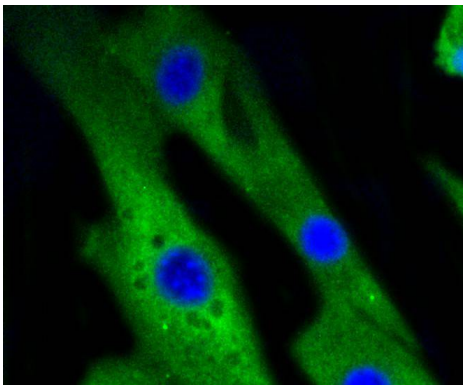
Application Details

WB: 1:1,000-5,000ICC: 1:50-1:200

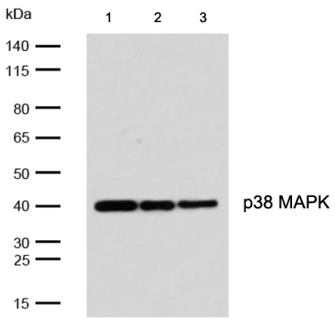
Images



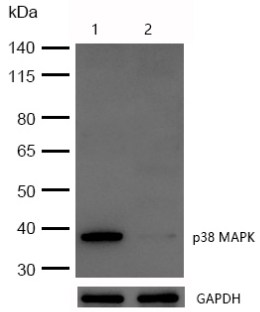
ICC staining p38 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



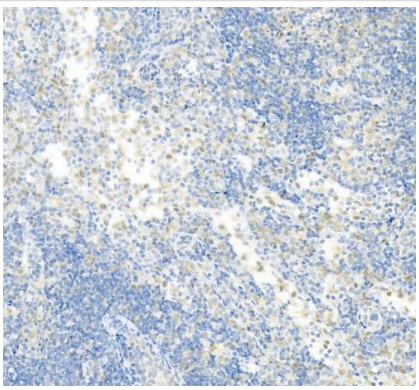
ICC staining p38 in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



All lanes: p38 MAPK Rabbit mAb at 1/1k dilutionLane 1 : Hela whole cell lysates Lane 2 : 3T3 whole cell lysates Lane 3 : PC12 whole cell lysates Lysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 41 kDa Observed band size: 40 kDaExposure time: 7 seconds



All lanes :p38 MAPK Rabbit mAb at 1/1k dilutionLane 1 : Wild-type A549 cell lysateLane 2 : p38 MAPK knockdown A549 cell lysateLysates/proteins at 20 µg per lane.



Formalin-fixed, paraffin-embedded rat mesenteric lymph nodes tissue stained for p38 MAPK using 48644 at 1/100 dilution in immunohistochemical analysis.

Background

MAP (mitogen-activated protein) kinases play a significant role in many biological processes, including cell adhesion and spreading, cell differentiation and apoptosis. p38α, p38β and p38γ, also known as MAPK14, MAPK11 and MAPK12, respectively, each contain one protein kinase domain and belong to the MAP kinase family. Expressed in different areas throughout the body with common expression patterns in heart, p38 proteins use magnesium as a cofactor to catalyze the ATP-dependent phosphorylation of target proteins. Via their catalytic activity, p38α, p38β and p38γ are involved in a variety of events throughout the cell, including signal transduction pathways, cytokine production and cell proliferation and differentiation. The p38 proteins are subject to phosphoryation on Thr and Tyr residues, an event which is thought to activate the phosphorylated protein.

References

1. Yan T et al. Luteolin inhibits behavioral sensitization by blocking methamphetamine-induced MAPK pathway activation in the caudate putamen in mice. PLoS One 9:e98981 (2014). 2. Pagliara V et al. Protease Nexin-1 affects the migration and invasion of C6 glioma cells through the regulation of urokinase Plasminogen Activator and Matrix Metalloproteinase-9/2. Biochim Biophys Acta 1843:2631-44 (2014).

Published Papers

el at., Confirming whether novel rhein derivative 4a induces paraptosis-like cell death by endoplasmic reticulum stress in ovarian cancer cells. In Eur J Pharmacol on 2020 Nov 5 by Hui-Feng Pang, Xin-Xiao Li, et al..PMID:32890460, , (2020)

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PMID:38312593

Note: This product is for in vitro research use only and is not intended for use in humans or animals.