JNK1/2/3(Phospho-T183/T183/T221) Rabbit mAb

Catalog No: #13371

Package Size: #13371-1 50ul #13371-2 100ul

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

Description

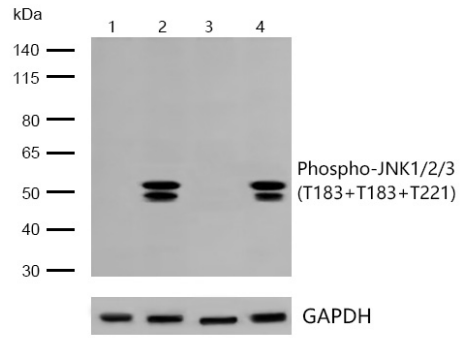
Product Name	JNK1/2/3(Phospho-T183/T183/T221) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	ST500
Purification	ProA affinity purified
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Thr183 + Thr183 + Thr221 of human JNK1/2/3
Conjugates	Unconjugated
Other Names	C Jun kinase 2 antibody c Jun N terminal kinase 1 antibody c Jun N terminal kinase 2 antibody c Jun N terminal kinase 3 antibody c-Jun N-terminal kinase 1 antibody JNK 46 antibody JNK 55 antibody JNK antibody JNK-46 antibody JNK1 antibody JNK1A2 antibody JNK2 antibody JNK21B1/2 antibody JNK2A antibody JNK2ALPHA antibody JNK2B antibody JNK2BETA antibody JNK3 alpha protein kinase antibody JNK3 antibody JNK3A antibody Jun kinase antibody JUN N terminal kinase antibody MAP kinase 10 antibody MAP kinase 8 antibody MAP kinase 9 antibody MAP kinase p49 3F12 antibody MAPK 10 antibody MAPK 8 antibody MAPK 9 antibody MAPK10 antibody mapk8 antibody MAPK9 antibody Mitogen activated protein kinase 10 antibody Mitogen activated protein kinase 8 antibody Mitogen activated protein kinase 8 isoform JNK1 alpha1 antibody Mitogen activated protein kinase 8 isoform JNK1 beta2 antibody Mitogen activated protein kinase 9 antibody Mitogen-activated protein kinase 8 antibody MK08_HUMAN antibody p493F12 antibody p54a antibody p54aSAPK antibody p54bSAPK antibody PRKM10 antibody PRKM8 antibody PRKM9 antibody SAPK antibody SAPK(beta) antibody SAPK1 antibody SAPK1a antibody SAPK1b antibody SAPK1c antibody Stress activated protein kinase 1 antibody Stress activated protein kinase 1a antibody Stress activated protein kinase 1b antibody Stress activated protein kinase 1c antibody Stress activated protein kinase beta antibody Stress activated protein kinase JNK1 antibody Stress activated protein kinase JNK2 antibody Stress activated protein kinase JNK3 antibody Stress-activated protein kinase 1c antibody Stress-activated protein kinase JNK1 antibody
Accession No.	Swiss-Prot#:P45983
Calculated MW	48/53 kDa
SDS-PAGE MW	48/53 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:500-1:2000

ICC/IF: 1:50-1:200

IHC: 1:50-1:200



All lanes : JNK1/2/3(Phospho-T183/T183/T221) Rabbit mAb Rabbit mAb at 1/1k dilution

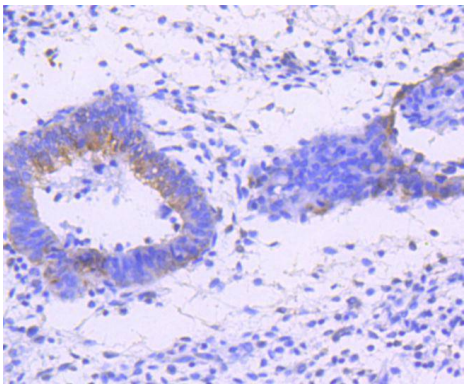
Lane 1 : NIH/3T3 whole cell lysates
Lane 2 : NIH/3T3 treated with Anisomycin whole cell lysates
Lane 3 : 293 whole cell lysates
Lane 4 : 293 treated with Anisomycin whole cell lysates

Lysates/proteins at 20 µg per lane.

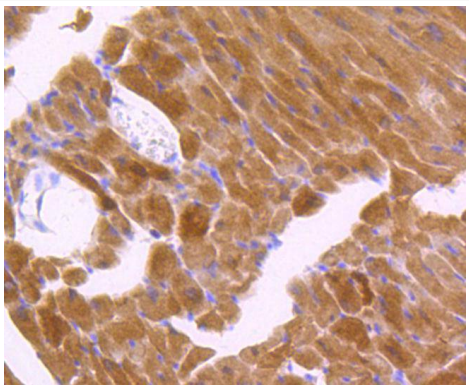
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 48/53 kDa
Observed band size: 48/53 kDa

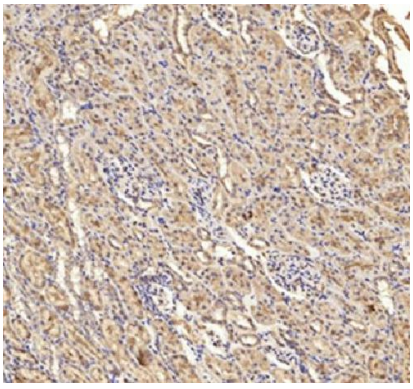
Exposure time: 15 seconds



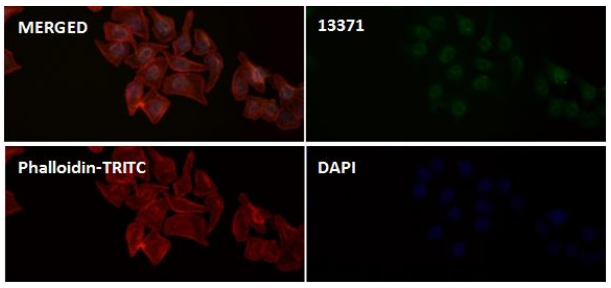
Formalin-fixed;paraffin-embedded human uterus tissue stained for JNK1/2/3(Phospho-T183/T183/T221) using 13371 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed;paraffin-embedded mouse heart uterus tissue stained for JNK1/2/3(Phospho-T183/T183/T221) using 13371 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed;paraffin-embedded rat kidney uterus tissue stained for JNK1/2/3(Phospho-T183/T183/T221) using 13371 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence
JNK1/2/3(Phospho-T183/T183/T221) antibody (13371)
ICC/IF staining of JNK1/2/3(Phospho-T183/T183/T221) in HeLa cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 13371 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit;used at a dilution of 1/500.
The cells were incubated 30 minutes at room temperature with phalloidin tritc .
Nuclei were counterstained with DAPI.

Background

JNKs (c-Jun N-terminal kinases) belong to a family of MAP kinases that are involved in a variety of cellular processes, including transcriptional regulation and cellular proliferation, differentiation and development. JNK2 (c-Jun N-terminal kinase 2) and JNK3 (c-Jun N-terminal kinase 3) are 424 and 464 amino acid proteins, respectively, that each contain one protein kinase domain and use magnesium as a cofactor to catalyze the phosphorylation of target proteins, thereby playing a role in a variety of events throughout the cell. Both JNK2 and JNK3 exist as multiple alternatively spliced isoforms and are subject to post-translational phosphorylation on Thr 183 and Thr 221, respectively, an event which activates JNK2/JNK3 enzymatic activity. Defects in the gene encoding JNK3 are a cause of epileptic encephalopathy of the Lennox-Gastaut type, a group of epileptic disorders characterized by severe psychomotor delay and seizures.

References

1. Kang K et al. Carnosic acid slows photoreceptor degeneration in the Pde6b(rd10) mouse model of retinitis pigmentosa. Sci Rep 6:22632 (2016).
2. Li C et al. Inhibitory effects of kaempferol on the invasion of human breast carcinoma cells by downregulating the expression and activity of matrix metalloproteinase-9. Biochem Cell Biol 93:16-27 (2015).

Published Papers

el at., Baicalin ameliorates angiotensin II-induced cardiac hypertrophy and mitogen-activated protein kinase signaling pathway activation: A target-based network pharmacology approach. In Eur J Pharmacol on 2024 Oct 15 by Ying Cheng, Guosheng Lin, et al..PMID:39127302, , (2024)

PMID:39127302

Miao Miao;Zhang Xue-Ying;Yu Hai-Xin;Shi Shan-Rui;Ma Chao-Nan;Guo Shou-Dong el at., Mechanisms underlying the effects of the conditional knockdown of hepatic PCSK9 in attenuating lipopolysaccharide-induced acute liver inflammation, , (2024)

PMID:

Miao Miao;Xue-Ying Zhang;Hai-Xin Yu;Shan-Rui Shi;Chao-Nan Ma;Shou-Dong Guo el at., Mechanisms underlying the effects of the conditional knockdown of hepatic PCSK9 in attenuating lipopolysaccharide-induced acute liver inflammation., , (2025)

PMID:39716700

el at., Gingerenone A Attenuates Ulcerative Colitis via Targeting IL-17RA to Inhibit Inflammation and Restore Intestinal Barrier Function. In Adv Sci (Weinh) on 2024 Jul by Jian Liang, Weigang Dai,et al..PMID:38639442, , (2024)

PMID:38639442

Meizhu Wu , Zhi Guo , Yi Xie el at., δΈ ε• Άθ± θ ·ι θΩ θ° ζ §MAPK
δΩ‘ε• ·ι θ·—ε • θ½»ι« θ‘ ε ζ θ ΄θ ΄Yθ • η» θ ε δΊ‘η ζ Ίε Άη η©Ά, ε ε·• ε § ε-¦ ε-¦ ζ , (2025)

PMID:41416166

Xie Siwen;Yin Meng;Xiang Mengting;Shao Litao;Zhang Nan;Shi Liang;Zhang Juan;Yu Gongchang el at., Lead (Pb) Induces Osteotoxicity Through the Activation of Mutually Reinforced ER Stress and ROS in MC3T3-E1 Cells, , (2024)

PMID:39643796

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