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

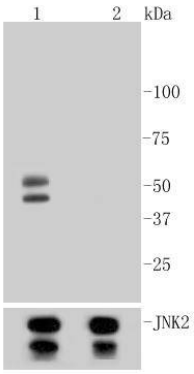
Product Name	JNK1/2/3(Phospho-T183/T183/T221) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	ST500
Purification	ProA affinity purified
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding 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

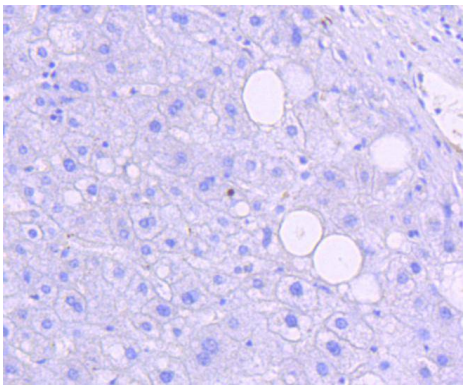
WB: 1:500-1:2000

ICC/IF: 1:50-1:200

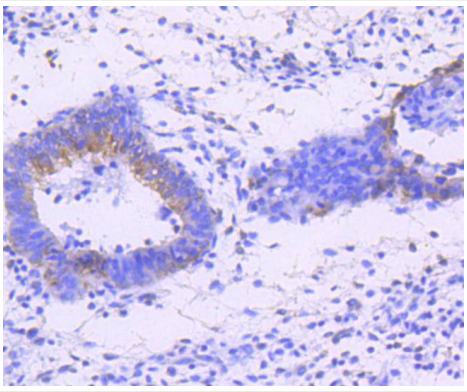
IHC: 1:50-1:200



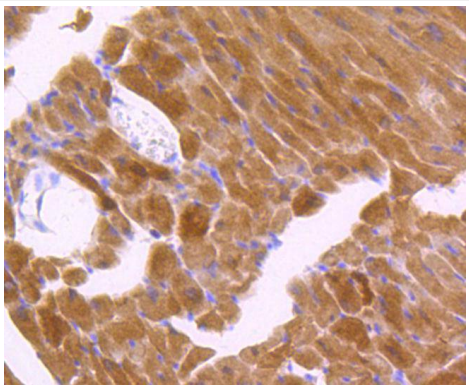
Western blot analysis of Phospho-JNK1/2/3(T183+T183+T221) on different lysates using anti-Phospho-JNK1/2/3(T183+T183+T221) antibody at 1/1,000 dilution. Positive control:
Lane 1: NIH/3T3 cell lysate, treated with Anisomycin
Lane 2: NIH/3T3 cell lysate, untreated



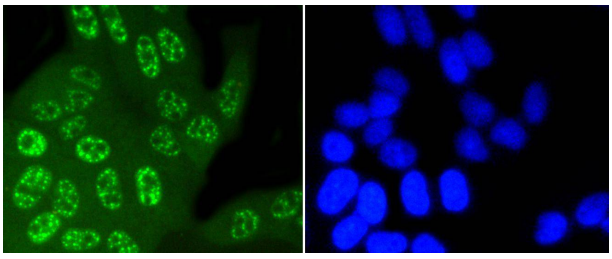
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Phospho-JNK1/2/3(T183+T183+T221) antibody. Counter stained with hematoxylin.



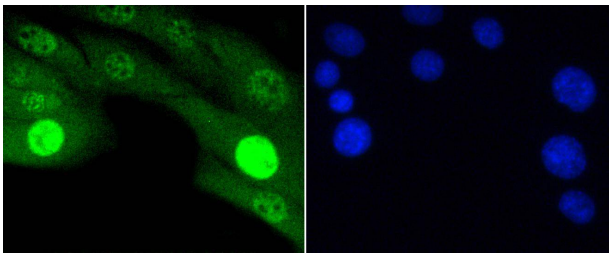
Immunohistochemical analysis of paraffin-embedded human uterus tissue using anti-Phospho-JNK1/2/3(T183+T183+T221) antibody. Counter stained with hematoxylin.



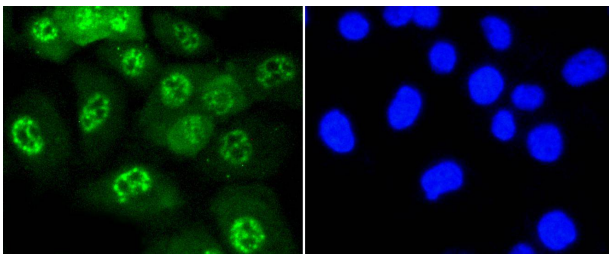
Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-Phospho-JNK1/2/3(T183+T183+T221) antibody. Counter stained with hematoxylin.



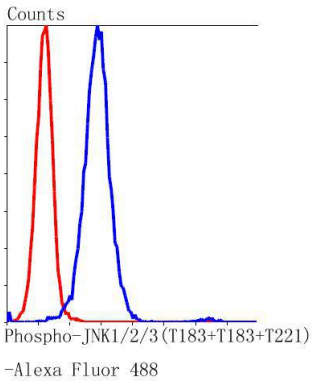
ICC staining Phospho-JNK1/2/3(T183+T183+T221) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Phospho-JNK1/2/3(T183+T183+T221) in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Phospho-JNK1/2/3(T183+T183+T221) in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with Phospho-JNK1/2/3(T183+T183+T221) antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

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

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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

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