Datasheet for ABIN6135990

anti-MAPK8/9/10 antibody (pThr183, pThr221, Thr183)

6 Images

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Overview

Quantity:	100 µL
Target:	MAPK8/9/10
Binding Specificity:	pThr183, pThr221, Thr183
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This MAPK8/9/10 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	A phospho specific peptide corresponding to residues surrounding T183/T183/T221 of human JNK1/2/3
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Phosphorylated Antibodies

Target Details

Target:	MAPK8/9/10
Alternative Name:	MAPK8/MAPK9/MAPK10 (MAPK8/9/10 Products)
Background:	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as

Target Details

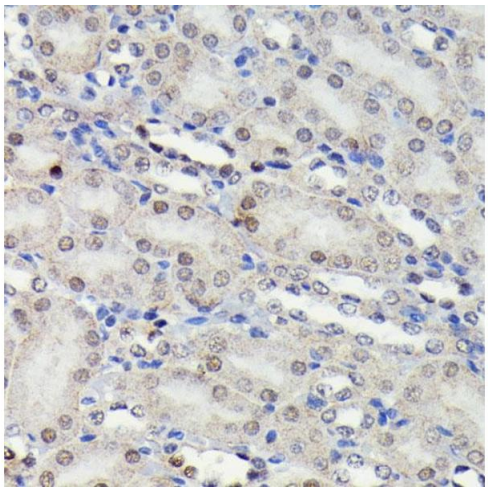
	an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrom c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Several alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Apr 2016],JNK1/JNK2/JNK3,MAPK8/MAPK9/MAPK10
Molecular Weight:	35 kDa/44 kDa/48 kDa/27 kDa/52 kDa
Gene ID:	5599, 5601, 5602
UniProt:	P45983, P45984, P53779

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

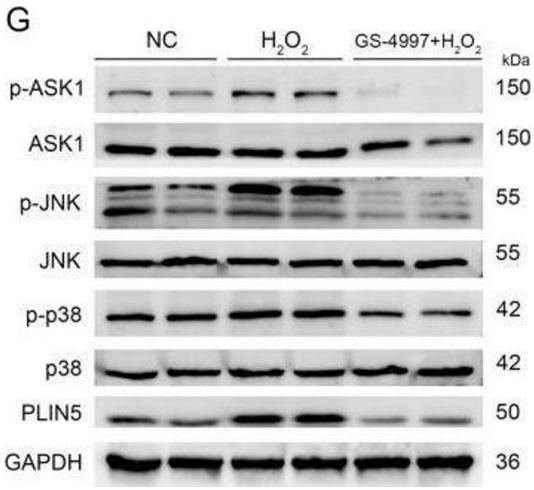
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



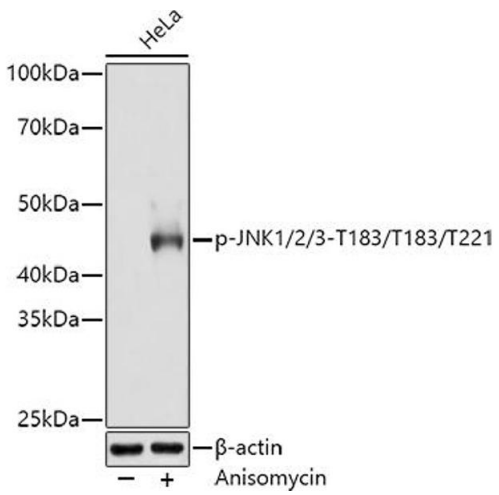
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded mouse kidney using Phospho-JNK1/2/3-T183/T183/T221 antibody (ABIN6135251, ABIN6135990, ABIN6135991 and ABIN7101879) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. The expression of PLIN5 was regulated by the JNK-p38-ATF pathway. (A) Protein levels of ATF1, ATF4, p-p38, p38, p-JNK, and JNK were detected by Western Blot. (B) The gray value analysis of A. (C) mRNA levels of ATF1, ATF3, and ATF4 in cells with 200 μM H2O2 treatment were detected by qPCR. (D) The cells were transfected with ATF1 expression vector or pcDNA3.1 vector. The protein levels of ATF1 and PLIN5 were detected through Western Blot. (E) The cells were transfected with ATF4 expression vector or pcDNA3.1 vector. The protein levels of ATF4 and PLIN5 were detected through Western Blot. (F) The effects of ATFs' expression on PLIN5 transcriptional activity were detected by dual-luciferase reporter assay. (G) Protein levels of p-ASK1, Ask1, p-p38, p38, p-JNK, JNK, and PLIN5 were detected by Western Blot. (H) The gray value analysis of G. GAPDH was used as the reference protein. These experiments were performed in triplicate. * $p < 0.05$, ** $p < 0.01$, and n. s., not significant. - figure provided by CiteAb. Source: PMID31614673



Western Blotting

Image 3. Western blot analysis of extracts of HeLa cells, using Phospho-JNK1/2/3-T183/T183/T221 antibody (ABIN6135251, ABIN6135990, ABIN6135991 and ABIN7101879) at 1:3000 dilution.HeLa cells were treated by Anisomycin (25 µg/mL) at 37 °C for 30 minutes after serum-starvation overnight.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 180s.

Please check the product details page for more images. Overall 6 images are available for ABIN6135990.