



Datasheet for ABIN669381
anti-JNK antibody (AA 201-300)



[Go to Product page](#)

4 Images

1 Publication

Overview

Quantity:	100 µL
Target:	JNK (MAPK8)
Binding Specificity:	AA 201-300
Reactivity:	Human, Mouse, Rat, Chicken, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This JNK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human JNK1
Isotype:	IgG
Cross-Reactivity:	Chicken, Dog, Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	JNK (MAPK8)
---------	-------------

Target Details

Alternative Name: [JNK1 \(MAPK8 Products\)](#)

Background: Synonyms: JNK, JNK1, PRKM8, SAPK1, JNK-46, JNK1A2, SAPK1c, JNK21B1/2, Mitogen-activated protein kinase 8, MAP kinase 8, MAPK 8, Stress-activated protein kinase 1c, Stress-activated protein kinase JNK1, c-Jun N-terminal kinase 1, MAPK8

Background: JNK1(MAPK8) 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 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 cytochrome 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. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. JNK1 is activated by threonine and tyrosine phosphorylation by either of two dual specificity kinases, MAP2K4 and MAP2K7. The JNK pathway is critically involved in diabetes and levels are abnormally elevated in obesity. The cell-permeable JNK inhibitory peptide may have promise as a therapeutic agent for diabetes.

Gene ID: 5599

UniProt: [P45983](#)

Pathways: [MAPK Signaling](#), [WNT Signaling](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Hepatitis C](#), [Toll-Like Receptors Cascades](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [S100 Proteins](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

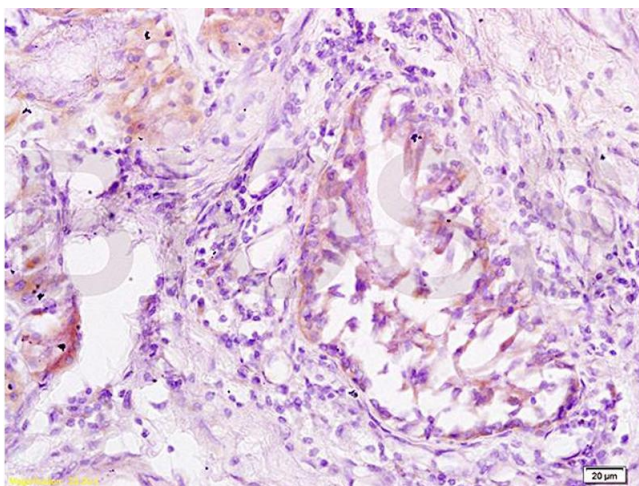
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

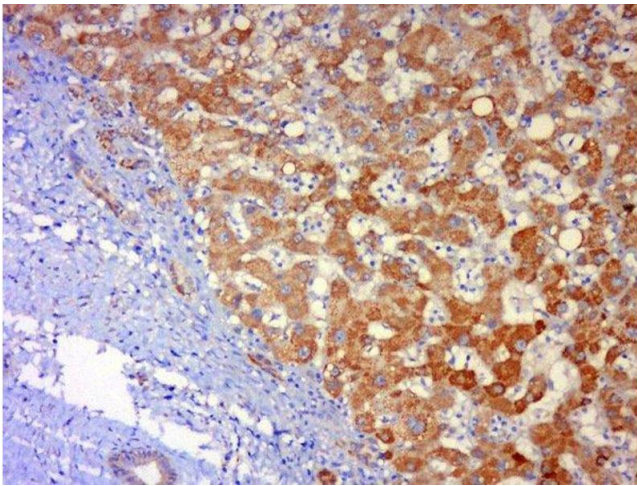
Product cited in: Król, Mucha, Majchrzak, Homa, Bulkowska, Majewska, Gajewska, Pietrzak, Perszko, Romanowska, Pawłowski, Manuali, Hellmen, Motyl: "Macrophages mediate a switch between canonical and non-canonical Wnt pathways in canine mammary tumors." in: **PLoS ONE**, Vol. 9, Issue 1, pp. e83995, (2014) ([PubMed](#)).

Validation report #029728 for Western Blotting (WB)



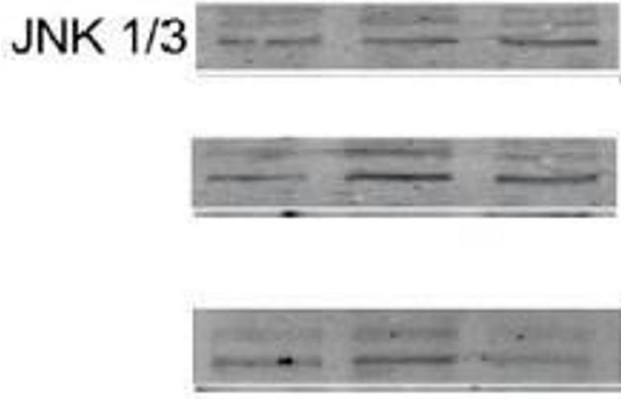
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded: human lung carcinoma labeled with Anti-JNK1/3 Polyclonal Antibody (ABIN669381), Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Paraformaldehyde-fixed, paraffin embedded human lung carcinoma, Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes, Blocking buffer (normal goat serum) at 37°C for 20min, Antibody incubation with JNK1 + 3 Polyclonal Antibody, Unconjugated at 1:500 overnight at 4°C, followed by a conjugated secondary and DAB staining.



Western Blotting

Image 3. Image kindly provided by Dr. Magdalena Krol. Control tumor cells, tumor cells grown in macrophage-conditioned medium, tumor cells sorted from co-culture with macrophages, and macrophages from monocultures and sorted from co-culture with tumor cells were analyzed. Total protein concentrations in lysates were determined using a Bio-Rad protein assay. Proteins (50 mg) were resolved using SDS-PAGE and transferred onto PVDF membranes. The membranes were then blocked with 5% non-fat dry milk in TBS buffer containing 0.5% Tween 20. The membranes were then incubated overnight with the primary Rabbit Anti-JNK1 + 3 Polyclonal Antibody at 1:100 dilution. Subsequently, the membranes were washed three times in TBS containing 0.5% Tween 20 and incubated for 1 h at room temperature with secondary antibodies conjugated with the appropriate infrared (IR) fluorophore IRDyeH 800 CW or IRDyeH 680 RD at a dilution of 1:5000.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN669381.