



**Mouse (monoclonal)
Anti-JNK1/2
Unconjugated**

PRODUCT ANALYSIS SHEET

Catalog Number:	AHO1362
Lot Number:	See product label
Quantity/Volume:	100 µg/0.2 mL
Clone Number:	279Q38
Isotype:	IgG1 κ (mouse)
Form of Antibody:	Purified immunoglobulin in phosphate buffered saline, pH 7.2, with 1% bovine serum albumin.
Preservation:	0.1% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
Purification:	Purified from ascites by affinity chromatography.
Immunogen:	Recombinant fragment of human JNK1α1 expressed in <i>E. coli</i> .
Specificity:	<p>JNK (c-Jun N-terminal Kinase), also referred to as Stress Activated Protein Kinase (SAPK), is one of the main mitogen-activated protein kinases (MAPKs) in mammals. JNK is expressed as ten different isoforms due to differential mRNA splicing. The predominant forms are JNK1 and JNK2. JNK is activated by a variety of cellular signals including growth factors, inflammatory cytokines, and environmental stress. The JNK/SAPK signaling pathway involves sequential activation of MAPK kinase kinase (MEKK1), MAPK kinase 4 (MKK4) or MKK7, SAPK/JNK, and c-Jun. Full activation of JNK requires phosphorylation of a threonine and a tyrosine residue in the motif Thr-Pro-Tyr. MKK7 and MKK4 phosphorylate JNK at threonine 183 and tyrosine 185, respectively. The JNK pathway functions to modulate cell cycle, apoptotic and transcriptional responses to stress.</p> <p>This antibody binds to both JNK1 and JNK2 proteins of $M_r=46$ and 54 kDa.</p>
Species Reactivity:	Human, mouse and rat.
Applications:	This antibody is suitable for use in Western blotting.
Suggested Working Dilutions:	For Western blotting, the recommended concentration is 1 µg/mL. The optimal antibody concentration should be determined for each specific application.
Recommended Positive Control:	Human Jurkat cells, mouse L929 cells and rat L6 cells.
Storage:	Store at 2-8°C. For long term storage, aliquot into small volumes and store at -20°C. Avoid repeated freeze-thaw cycles to prevent denaturing the antibody.

This product is for research use only. Not for use in diagnostic procedures.

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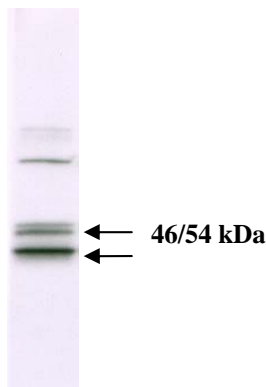
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References:

- Choudhury, B.K., et al. (2002) In vivo role of p38 mitogen-activated protein kinase in mediating the anti-inflammatory effects of CpG oligodeoxynucleotide in murine asthma. *J. Immunol.* 169(10):5955-5961.
- Janulis, M., et al. (2001) A novel mitogen-activated protein kinase is responsive to Raf and mediates growth factor specificity. *Mol. Cell. Biol.* 21(6):2235-2247.
- Tong, T., et al. (2001) Involvement of the MAP kinase pathways in induction of GADD45 following UV radiation. *Exp. Cell Res.* 269(1):64-72.
- Pearce, A.K. and T.C. Humphrey (2001) Integrating stress-response and cell-cycle checkpoint pathways. *Trends Cell. Biol.* 11(10):426-433.
- Barr, R.K. and M.A. Bogoyevitch (2001) The c-Jun N-terminal protein kinase family of mitogen activated protein kinases (JNK MAPKs). *Int. J. Biochem. Cell. Biol.* 33(11):1047-1063.
- Dong, C., et al. (2001) Signaling by the JNK group of MAP kinases. c-Jun N-terminal kinase. *J. Clin. Immunol.* 21(4):253-257.
- Cobb, M.H. (1999) MAP kinase pathways. *Prog. Biophys. Mol. Biol.* 71(3-4):479-500.

Related Products:

JNK1/2 (total) ELISA Kit	Cat. #	KHO0121
JNK1/2 [pTpY ^{183/185}] phosphoELISA™ Kit	Cat. #	KHO0131
JNK1/2 (total) Luminex™ Assay	Cat. #	LHO0071
JNK1/2 [pTpY ^{183/185}] Luminex™ Assay	Cat. #	LHO0081
AKT, JNK1/2, p38 MAPK (total) 3-Plex Luminex™ Assay	Cat. #	LHO0051
AKT, JNK1/2, p38 MAPK (phospho) 3-Plex Luminex™ Assay	Cat. #	LHO0061
JNK1/2 [pTpY ^{183/185}] Phosphorylation Site Specific Antibody	Cat. #	44-682G
c-Jun [pS73] Phosphorylation Site Specific Antibody	Cat. #	44-292
MEK4 [pSpT ^{257/261}] Phosphorylation Site Specific Antibody	Cat. #	44-474
MEK7 [pSpT ^{271/275}] Phosphorylation Site Specific Antibody	Cat. #	44-478
JNK2 Mouse Monoclonal Antibody	Cat. #	AHO1162
JNK1 Mouse Monoclonal Antibody	Cat. #	AHO1372
MAPK Phosphorylation Site Specific Antibody Sampler Pack	Cat. #	44-683G
Stress Phosphorylation Site Specific and Cleavage Site Specific Antibody Sampler Pack	Cat. #	44-648



Western Blot Analysis

Proteins from cell extract of human Jurkat cells were resolved by SDS-PAGE and transferred to PVDF. The membranes were incubated with this JNK1/2 monoclonal antibody (clone 279Q38) at a concentration of 1 µg/mL for two hours at room temperature. After washing, the membranes were incubated with a goat F(ab')₂ anti-mouse IgG alkaline phosphatase conjugated antibody (Cat. # AMI4405) at a 1:2000 dilution. Bands were detected with CDP-substrate using the WesternStar™ method (Tropix) and Kodak BioMax film.

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