



Qty: 100 µg/200 µl

Mouse anti-JNK1

Catalog No. 35-9800

Lot No.

Mouse anti-JNK1

FORM

This monoclonal antibody is supplied as a 200 µl aliquot at a concentration of 0.5 mg/ml in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: 4A2G12

ISOTYPE: IgG₁

IMMUNOGEN

Recombinant GST-fusion protein of JNK1

SPECIFICITY

This antibody reacts with JNK1 in both transfected and endogenous cell lines on Western blots. This antibody may cross-react with JNK3 in an overexpressed cell lysate, but the cross reactivity to JNK2 has not been observed. This antibody identifies a 54 KDa band on Western blot analysis.

REACTIVITY

Reactivity is confirmed with A431 cell lysates.

Sample	Immuno-fluorescence	Western Blotting
Human	+	+++
Immunogen	ND	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Immunofluorescence: 5-10 µg/ml

Western Blotting: 1-3 µg/ml

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

www.invitrogen.com

Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: techsupport@invitrogen.com

PI359800

(Rev 10/08) DCC-08-1089

Important Licensing Information - These products may be covered by one or more Limited Use Label Licenses (see the Invitrogen Catalog or our website, www.invitrogen.com). By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BACKGROUND

The mitogen-activated protein kinase (MAP) kinase family includes ERK, JNK and p38 kinase. The pathway, regulated by (MAP) kinase family, involves a broad array of cellular responses that include survival, cell proliferation, and apoptosis.¹ The JNK signal transduction pathway is activated in response to environmental stress and by engagement of several classes of cell surface receptors including cytokine receptors, serpentine receptors and receptor tyrosine kinases.²

Although JNK is located in both the cytoplasm and the nucleus of quiescent cells, activation of JNK is associated with accumulation of JNK in the nucleus.³ In the NGF (nerve growth factor)-differentiated PC-12 cells, activation of the ERK signaling pathway promotes cell survival but stimulation of the JNK and p38 signaling pathways contributes to cell death.⁴

REFERENCES

1. Kyriakis M, et al. *Biochem. Soc. Sym.* 64:29-48, 1999.
2. Davis R, et al. *J. Mol. Med.* 74:589-591, 1996.
3. Cavigelli M, et al. *EMBO J.* 14:5957-5962, 1995.
4. Xia Z, et al. *Science* 270:1326-1331, 1995.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Mouse anti-ERK1 + ERK2 (MAP Kinase)	7D8	13-6200
Rabbit anti-ERK1 + ERK2 (MAP Kinase)	Polyclonal	61-7400
Mouse anti-p38-alpha MAP Kinase	3F11	33-1300
Mouse anti-p38-beta2 MAP Kinase	11A5	33-8700
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

*PAD: Polyclonal Antibody Designation

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

Zymed® and ZyMAX™ are trademarks of Zymed Laboratories Inc. Cy™ is a trademark of Amersham Life Sciences, Inc. Sepharose® is a registered trademark of Pharmacia LKB.

For Research Use Only

TM020723

www.invitrogen.com

Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288 • E-mail: techsupport@invitrogen.com

PI359800

(Rev 10/08) DCC-08-1089

Important Licensing Information - These products may be covered by one or more Limited Use Label Licenses (see the Invitrogen Catalog or our website, www.invitrogen.com). By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.