

JNK Antibody

Catalog No: #48335



Package Size: #48335-1 50ul #48335-2 100ul

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Description

Product Name	JNK Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Immunogen affinity purified
Applications	WB, IP, IF, FCM
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Amino acids 1-384 representing full length JNK1 of human origin.
Other Names	AI849689 antibody c Jun N terminal kinase 1 antibody C-JUN kinase 1 antibody c-Jun N-terminal kinase 1 antibody EC 2.7.11.24 antibody JNK 1 antibody JNK antibody JNK-46 antibody JNK1A2 antibody JNK21B1/2 antibody MAP kinase 8 antibody MAPK 8 antibody mapk8 antibody Mitogen activated protein kinase 8 antibody Mitogen-activated protein kinase 8 antibody MK08_HUMAN antibody p54 gamma antibody Prkm8 antibody Protein kinase JNK1 antibody Protein kinase, mitogen-activated, 8 antibody SAPK 1 antibody SAPK gamma antibody SAPK1 antibody Stress-activated protein kinase 1 antibody Stress-activated protein kinase JNK1 antibody
Accession No.	Swiss-Prot#:P45983
Calculated MW	46/54kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

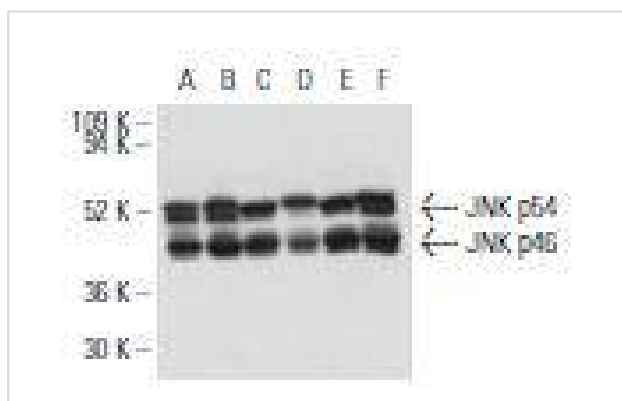
Application Details

WB: 1:100-1:1,000IP: 1-2 µg per 100-500 µg of total protein (1 ml of cell lysate) FC: 1 µg per 1 x 10<sup>6</sup> cells

Images



Western blot analysis of JNK phosphorylation in untreated (A,D), anisomycin treated (B,E) and anisomycin and lambda protein phosphatase treated (C,F) Jurkat whole cell lysates.



Western blot analysis of JNK p46 and JNK p54 expression in K-562 (A), A-431 (B), NIH/3T3 (C), HeLa (D), RAW264.7 (E) and Jurkat (F) whole cell lysates.

## Background

c-Jun N-terminal kinases (JNKs) phosphorylate and augment transcriptional activity of c-Jun. JNKs originate from three genes that yield ten isoforms through alternative mRNA splicing, including JNK1 $\alpha$ 1, JNK1 $\beta$ 1, JNK2 $\alpha$ 1, JNK2 $\beta$ 1 and JNK3 $\alpha$ 1, which represent the p46 isoforms, and JNK1 $\alpha$ 2, JNK1 $\beta$ 2, JNK2 $\alpha$ 2, JNK2 $\beta$ 2 and JNK3 $\beta$ 2, which represent the p54 isoforms. JNKs coordinate cell responses to stress and influence regulation of cell growth and transformation. The human JNK1 (PRKM8, SAPK1, MAPK8) gene maps to chromosome 10q11.22 and shares 83% amino acid identity with JNK2. JNK1 is necessary for normal activation and differentiation of CD4 helper T (TH) cells into TH1 and TH2 effector cells. Capsaicin activates JNK1 and p38 in Ras-transformed human breast epithelial cells. Nitrogen oxides (NOx) upregulate JNK1 in addition to c-Fos, c-Jun and other signaling kinases, including MEKK1 and p38.

## References

1. Uchida, Y., et al. 2012. Involvement of stress kinase mitogen-activated protein kinase kinase 7 in regulation of mammalian circadian clock. *J. Biol. Chem.* 287: 8318-8326.
2. Sun, P.H., et al. 2012. Protein tyrosine phosphatase  $\mu$  (PTP  $\mu$  or PTPRM), a negative regulator of proliferation and invasion of breast cancer cells, is associated with disease prognosis. *PLoS ONE* 7: e50183.

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