

JNK (Thr-183/Tyr-185), phospho-specific

Cat. # JM2681

Host Mouse Monoclonal IgG1

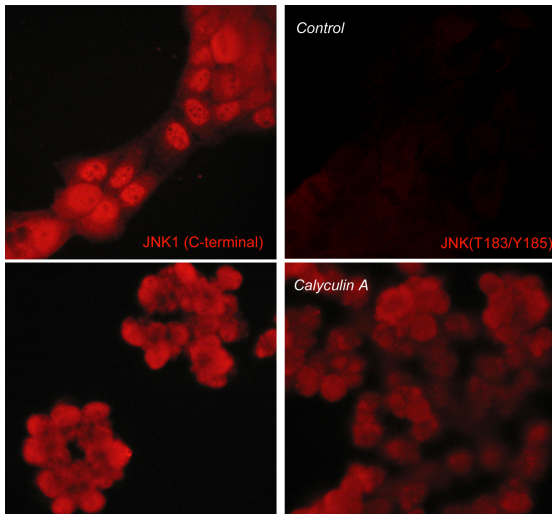
Size 100 µl

Background:

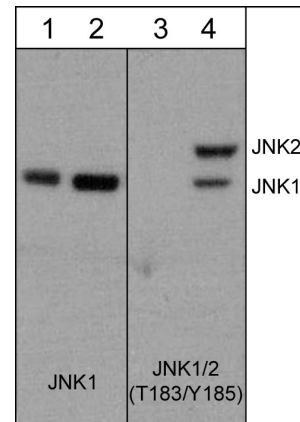
The stress-activated protein kinases (SAPK) or Jun-amino-terminal kinases (JNK) are potently activated by stressors such as UV and gamma radiation. Similar to other MAP Kinases, the core signaling unit is composed of a MAPKKK, usually MEKK1-4 or a mixed lineage kinase (MLK), which phosphorylate and activate MKK4-7, leading to dual phosphorylation and activation of JNK kinases. Rho-GTPases (Rac1 and cdc42) can stimulate MEKKs and MLKs, while MKKs can be activated by a GTPase-independent pathway that involves the germinal center kinase family. There are three JNK genes (JNK1,2, 3) with further diversification resulting from alternative splicing. Active JNK dimers can translocate to the nucleus to regulate transcription through phosphorylation of c-Jun, ATF-2 and other transcription factors.

References

- Davis, R.J. (1999) *Biochem. Soc. Symp.* 64:1.
 Ichijo, H. (1999) *Oncogene* 18:6087.
 Kyriakis, J.M. (1999) *J. Biol. Chem.* 274:5259.
 Whitmarsh, A.J. & Davis, R.J. (1998) *Trends Biochem. Sci.* 23:481.



Immunocytochemical labeling of JNK in control (Top row) or calyculin A-treated A431 cells (Bottom row). The cells were labeled with mouse monoclonal JNK (C-terminal region) (Left) or mouse monoclonal JNK (Thr-183/Tyr-185) (Right). The antibodies were detected using goat anti-mouse DyLight 594.



Western blot analysis of PC12 cells untreated (lanes 1 & 3) or treated with calyculin A (100 nM) for 30 minutes (lanes 2 & 4). The blot was probed with anti-JNK1 (lanes 1 & 2) or anti-JNK1 (T183/Y185) (lanes 3 & 4).

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Cat. # JM2681

Host Mouse Monoclonal IgG1

Size 100 μ l

Immunogen:

Clone M268 was generated from a dual phosphorylated peptide corresponding to amino acid residues surrounding Thr-183 and Tyr-185 in human JNK1. This sequence has high homology to the conserved site in rat and mouse JNK1 and JNK2.

Buffer and Storage:

Mouse monoclonal purified with protein A chromatography is supplied in 100 μ l phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C . Do not aliquot. Stable for 1 year.

Applications:

WB 1:1000

ELISA 1:2000

ICC 1:100

End user should determine optimal dilution for their particular applications and experiments.
Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1hour at room temperature.

Specificity:

This antibody detects 46 and 54 kDa* proteins corresponding to the apparent molecular mass of JNK1 and JNK2 on SDS-PAGE immunoblots of human A431 and HeLa cells, as well as rat PC12 cells treated with calyculin A.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Related Products:

JM2671 JNK1 (C-terminal region) Mouse Monoclonal
EM2061 ERK1/2 (Thr-202/Tyr-204), phospho-specific Mouse Monoclonal
EM2331 ERK1 (C-terminal Region) Mouse Monoclonal
PM1391 p38 MAP Kinase (Thr-180/Tyr-182), phospho-specific Mouse
PM1381 p38 α MAP Kinase (C-terminal) Mouse Monoclonal

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