

## Polyclonal Antibody to MAPK8 / MAPK9 pThr183/pTyr185 - Purified

<b>Alternate names:</b>	JNK-1, JNK-2, JNK-46, JNK-55, JNK1, JNK2, MAPK-8, MAPK-9, MAPK8, MAPK9, Mitogen-activated protein kinase 8/9, PRKM8, PRKM9, SAPK, Stress-activated protein kinase JNK11/JNK2, c-Jun N-terminal kinase 1/2
<b>Catalog No.:</b>	SP5016P
<b>Quantity:</b>	0.1 ml
<b>Background:</b>	<p>Cellular oncogenes, or proto-oncogenes, play pivotal roles in cellular communication pathways that regulate normal growth, development and differentiation. The cellular oncogene families fos and jun encode nuclear proteins that can function as transcription factors. The fos family of nuclear oncogenes encode cFos, FosB, (fos-related antigen) Fra1, and Fra2. The jun family member, cJun, is phosphorylated by another kinase termed cJun N-terminal kinase (JNK).</p> <p>Fos and Jun dimerize to form Activator Protein-1 (AP-1), a transcriptional factor that binds to the 12-O-tetradecanoylphorbol 13-acetate (TPA) response element (TRE) of several cellular and viral genes including human collagenase, metallothionein IIa, stromelysin, interleukin 2, SV40 and polyoma. Fos and Jun contain the 'leucine-zipper' motif that allows for dimerization and an adjacent basic domain required for biological activity. The functionally active form of Fos is in a heterodimer with a member of the Jun family. While Jun family members can form functional homodimers, studies indicate that Fos family members do not self-associate and therefore do not bind DNA on their own. The various dimers differ in their ability to transactivate AP-1 dependent genes.</p>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Synthetic peptide derived from human JNK 1 and 2 that contains phosphorylated threonine 183 and tyrosine 185.
<b>Format:</b>	<p><b>State:</b> Liquid purified IgG fraction.</p> <p><b>Buffer System:</b> Dulbecco's PBS (without Magnesium and Calcium), pH 7.4, 50% glycerol, containing 1 mg/mL BSA and 0.05% sodium azide as preservative.</p>
<b>Applications:</b>	Western blot: 1/1000, detects an ~49 kDa protein and an ~55 kDa protein representing JNK1 and 2, respectively, from platelet-derived growth factor (PDGF) treated NIH-3T3 cell extract. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects cJun N-terminal kinase (JNK) from human, mouse, and rat tissues and cells.
<b>Storage:</b>	<p>Store the antibody at -20°C.</p> <p>Avoid repeated freezing and thawing.</p> <p>Shelf life: one year from despatch.</p>

**General Readings:** 1. Prog. Biophys. Mol. Biol. 71(3-4):479-500, 1999.