

## Product datasheet for **AP09471PU-S**

### JNK1 (MAPK8) pThr183/pTyr185 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. Incubate membrane with diluted antibody in 5% nonfat milk, 1xTBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight. <b>Immunofluorescence:</b> 1/100-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized phosphopeptide derived from human JNK1/JNK2 around the phosphorylation site of Thr183/Tyr185 (M-M-Tp-P-YP-V-V).
Specificity:	This antibody detects endogenous levels of JNK1/JNK2 only when phosphorylated at Thr183/Tyr185.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	mitogen-activated protein kinase 8
Database Link:	<a href="#">Entrez Gene 26419 Mouse</a> <a href="#">Entrez Gene 116554 Rat</a> <a href="#">Entrez Gene 5599 Human P45983</a>



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**Background:**

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.

**Synonyms:**

JNK1/JNK2, MAPK8, PRKM8, SAPK1, JNK-46, MAPK9, PRKM9, JNK-55

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

**Protein Pathways:**

Adipocytokine signaling pathway, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, Focal adhesion, GnRH signaling pathway, Insulin signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus, Wnt signaling pathway

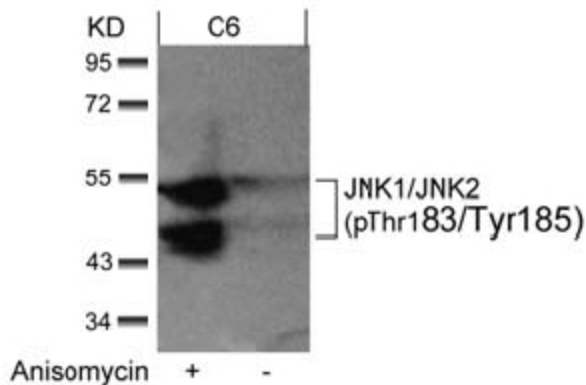
**Product images:**

Figure 2. Western blot analysis of extracts from C6 cells untreated or treated with anisomycin using JNK1/JNK2 (phospho-Thr183/Tyr185) Antibody.

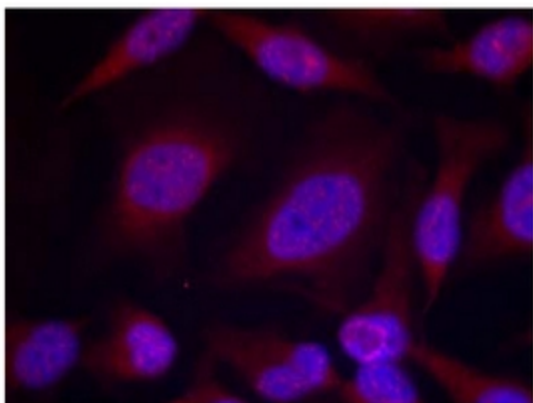


Figure 1. Immunofluorescence staining of methanol-fixed HeLa cells using JNK1/JNK2 (phospho-Thr183/Tyr185) Antibody (Red).