

## Product datasheet for **TA324297**

### JNK1 (MAPK8) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1:500-1000, IF: 1:100-200
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of Thr183/Tyr185 (M-M-T(p)-P-Y(p)-V - V ) derived from Human JNK1/JNK2/JNK3.
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	mitogen-activated protein kinase 8
Database Link:	<a href="#">NP_620637</a> <a href="#">Entrez Gene 26419 MouseEntrez Gene 116554 RatEntrez Gene 5599 Human P45983</a>



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**Background:**

Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating a number of transcription factors, primarily components of AP-1 such as JUN, JDP2 and ATF2 and thus regulates AP-1 transcriptional activity. In T-cells, JNK1 and JNK2 are required for polarized differentiation of T-helper cells into Th1 cells. By similarity. Phosphorylates heat shock factor protein 4 (HSF4). Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating a number of transcription factors, primarily components of AP-1 such as c-Jun and ATF2 and thus regulates AP-1 transcriptional activity. In T-cells, JNK1 and JNK2 are required for polarized differentiation of T-helper cells into Th1 cells. JNK2 isoforms display different binding patterns: alpha-1 and alpha-2 preferentially bind to c-Jun, whereas beta-1 and beta-2 bind to ATF2. However, there is no correlation between binding and phosphorylation, which is achieved at about the same efficiency by all isoforms. JUNB is not a substrate for JNK2 alpha-2, and JUND binds only weakly to it.

**Synonyms:**

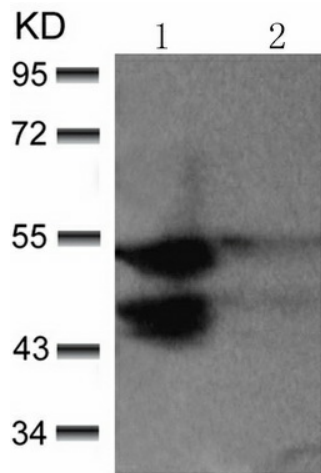
2; JNK; JNK-46; JNK1; JNK1A2; JNK21B1; PRKM8; SAPK1; SAPK1c

**Protein Families:**

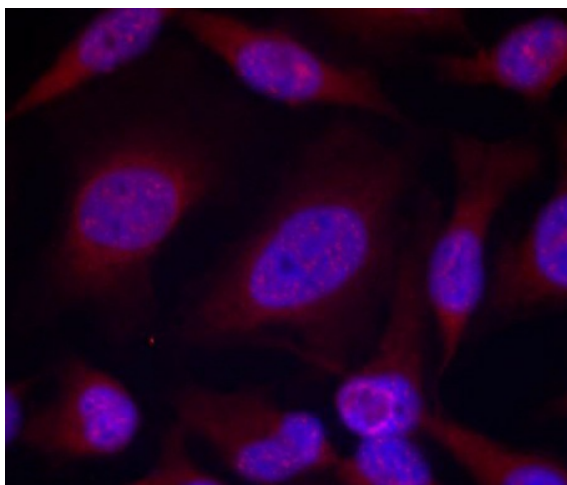
Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

**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:**

Predicted band size: 46; 54 kDa. Positive control: C6 cells untreated or treated with anisomycin lysate. Recommended dilution: 1/ 500-1000. (Gel: 10%SDS-PAGE Lane 1: C6 cells treated with anisomycin lysate Lane 2: C6 cells untreated with anisomycin lysate Lysates: 30 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)



Predicted cell location: Cytoplasm; Nucleus; Cell membrane. Positive control: HeLa cells.  
Recommended dilution: 1/ 100-200. The image is immunofluorescence of methanol-fixed HeLa cells using MAPK8/MAPK9/MAPK10 (phospho-Thr183/Tyr185) antibody at dilution 1/100. (Original magnification  $\times 200$ )