

## Product datasheet for **TA321931**

### JNK3 (MAPK10) Rabbit Polyclonal Antibody

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Applications:           | IHC, WB   |
| Recommended Dilution:   | ELISA: 1:1000-5000, WB: 1:500-2000, IHC: 1:5-20   |
| Reactivity:             | Human, Mouse, Rat   |
| Host:                   | Rabbit  |
| Isotype:                | IgG   |
| Clonality:              | Polyclonal  |
| Immunogen:              | Synthetic peptide corresponding to a region derived from 416-428 amino acids of Human mitogen-activated protein kinase 10   |
| 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.  |
| Predicted Protein Size: | 32 kDa  |
| Gene Name:              | mitogen-activated protein kinase 10   |
| Database Link:          | <a href="#">NP_620448</a><br><a href="#">Entrez Gene 25272 Rat</a> <a href="#">Entrez Gene 26414 Mouse</a> <a href="#">Entrez Gene 5602 Human</a><br><a href="#">P53779</a> |



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**Background:**

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals; and are involved in a wide variety of cellular processes such as proliferation; differentiation; transcription regulation and development. This protein is a neuronal-specific form of c-Jun N-terminal kinases (JNKs). Through its phosphorylation and nuclear localization; this kinase plays regulatory roles in the signaling pathways during neuronal apoptosis. Beta-arrestin 2; a receptor-regulated MAP kinase scaffold protein; is found to interact with; and stimulate the phosphorylation of this kinase by MAP kinase kinase 4 (MKK4). Cyclin-dependent kinase 5 can phosphorylate; and inhibit the activity of this kinase; which may be important in preventing neuronal apoptosis. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.

**Synonyms:**

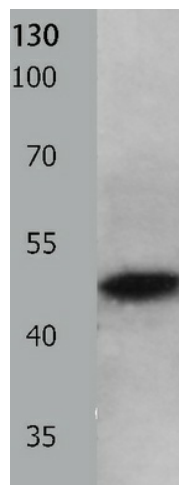
JNK3; JNK3A; p54bSAPK; p493F12; PRKM10; SAPK1b

**Protein Families:**

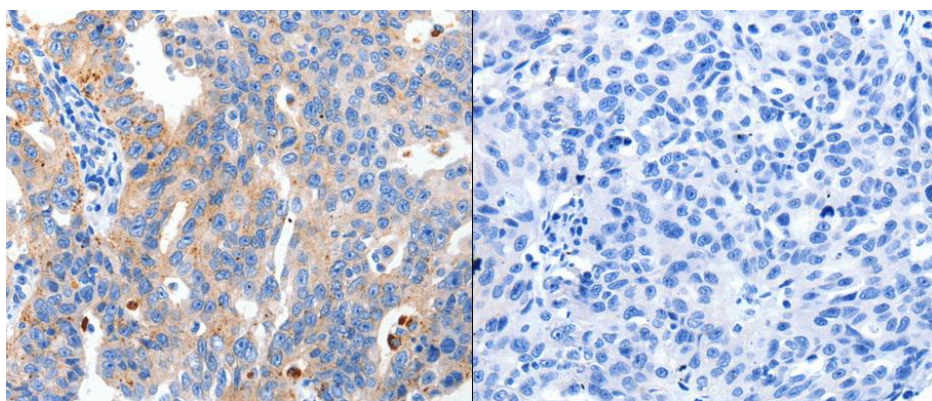
Druggable Genome, Protein Kinase

**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: 53 kDa. Positive control: 293T cell lysate. Recommended dilution: 1/500-2000. (Gel: 10%SDS-PAGE Lysate: 40 ug Primary antibody: 1/200 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 20 minutes)



Predicted cell location: Cytoplasm. Positive control: Human breast cancer tissue. Recommended dilution: 1/5-20 The image on the left is immunohistochemistry of paraffin-embedded Human breast cancer tissue using MAPK10 antibody at dilution 1/10, on the right is treated with the synthetic peptide. (Original magnification:x200)