

## Product datasheet for **TA322064S**

### JNK2 (MAPK9) Rabbit Polyclonal Antibody

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Applications:           | IHC, WB  |
| Recommended Dilution:   | WB: 500-2000<br>WB positive control: Raw264.7 cells, Mouse brain and heart tissue<br>IHC: 25-100<br>Positive control: Human esophagus cancer<br>Predicted cell location: Cytoplasm |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Rabbit   |
| Isotype:                | IgG  |
| Clonality:              | Polyclonal   |
| Immunogen:              | Synthetic peptide corresponding to a region derived from 373-386 amino acids of Human mitogen-activated protein kinase 9   |
| Formulation:            | PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol   |
| 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: | 48 kDa   |
| Gene Name:              | mitogen-activated protein kinase 9   |
| Database Link:          | <a href="#">NP_620707</a><br><a href="#">Entrez Gene 26420 Mouse</a> <a href="#">Entrez Gene 50658 Rat</a> <a href="#">Entrez Gene 5601 Human</a><br><a href="#">P45984</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 kinase targets specific transcription factors; and thus mediates immediate-early gene expression in response to various cell stimuli. It is most closely related to MAPK8; both of which are involved in UV radiation induced apoptosis; thought to be related to the cytochrome c-mediated cell death pathway. This gene and MAPK8 are also known as c-Jun N-terminal kinases. This kinase blocks the ubiquitination of tumor suppressor p53; and thus it increases the stability of p53 in nonstressed cells. Studies of this gene's mouse counterpart suggest a key role in T-cell differentiation. Several alternatively spliced transcript variants encoding distinct isoforms have been reported.

**Synonyms:**

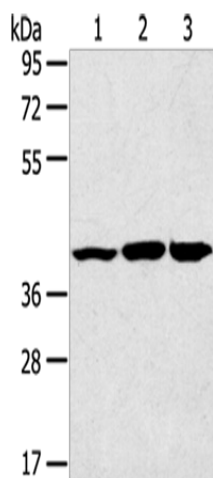
JNK-55; JNK2; JNK2A; JNK2ALPHA; JNK2B; JNK2BETA; p54a; p54aSAPK; PRKM9; SAPK; SAPK1a

**Protein Families:**

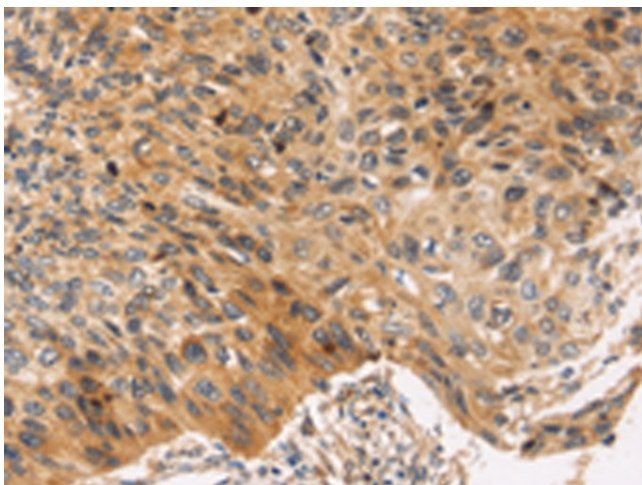
Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

**Protein Pathways:**

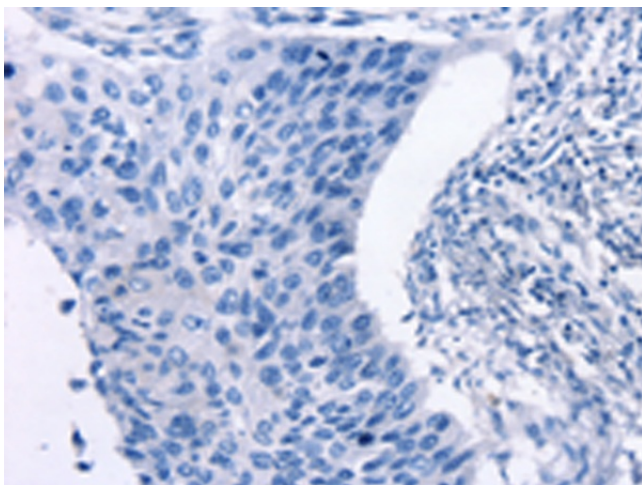
Adipocytokine signaling pathway, Colorectal cancer, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Fc epsilon RI signaling pathway, Focal adhesion, GnRH signaling pathway, Insulin signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like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

**Product images:**

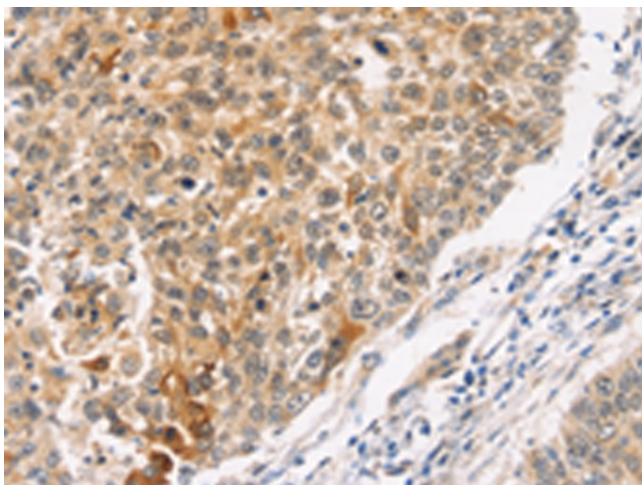
Gel: 8%SDS-PAGE  
Lysate: 40 µg  
Lane 1-3: Raw264.7 cells  
Mouse brain tissue  
Mouse heart tissue  
Primary antibody: [TA322064] (MAPK9 Antibody)  
at dilution 1/200  
Secondary antibody: Goat anti rabbit IgG at  
1/8000 dilution  
Exposure time: 5 seconds



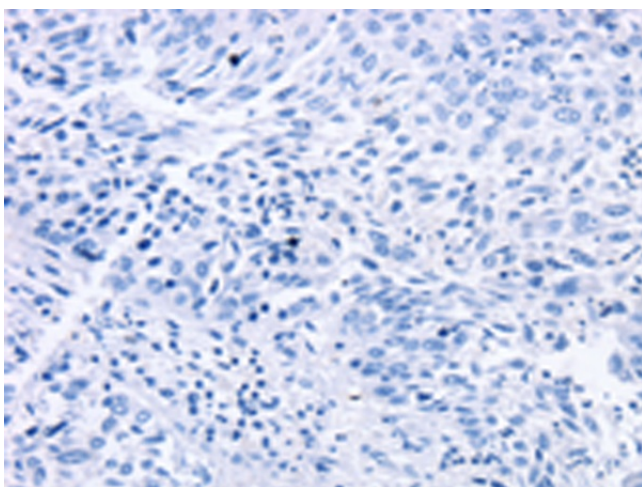
Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using [TA322064] (MAPK9 Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using [TA322064] (MAPK9 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using [TA322064] (MAPK9 Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using [TA322064] (MAPK9 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification: ×200)