

## Rabbit anti-Human, Mouse MKK4 Polyclonal Antibody | anti-MKK4 antibody

Anti-MKK4 Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                                                                |
|-----------|--------|--------------|-----------------------------------------------------------------------------|
| AAA263904 | Rabbit | Human, Mouse | Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

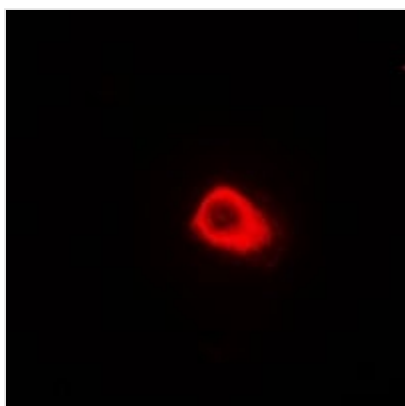
### PRODUCT SYNONYMS

MKK4; Polyclonal Antibody; Anti-MKK4 Antibody; JNKK1; MEK4; PRKMK4; SEK1; SERK1; SKK1; Dual specificity mitogen-activated protein kinase kinase 4; MAP kinase kinase 4; MAPKK 4; JNK-activating kinase 1; MAPK/ERK kinase 4; MEK 4; SAPK/ERK kinase 1; Stress-activated protein kinase kinase 1; SAPK kinase 1; SAPKK-1; SAPKK1; c-Jun N-terminal kinase kinase 1; JNKK; anti-MKK4 antibody

### PRODUCT SPECIFICATIONS

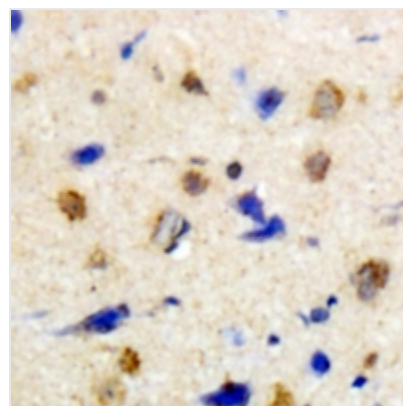
|                                                |                                                                                                           |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                    |
| Reactivity                                     | Human, Mouse                                                                                              |
| Clonality                                      | Polyclonal                                                                                                |
| Specificity                                    | Recognizes endogenous levels of MKK4 protein.                                                             |
| Purity/Purification                            | Purified by immunogen affinity chromatography.                                                            |
| Form/Format                                    | Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide. |
| Sequence Length                                | 410                                                                                                       |
| Applicable Applications for anti-MKK4 antibody | ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)         |
| Immunogen                                      | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MKK4.          |
| Preparation and Storage                        | Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.                   |

### IMAGES



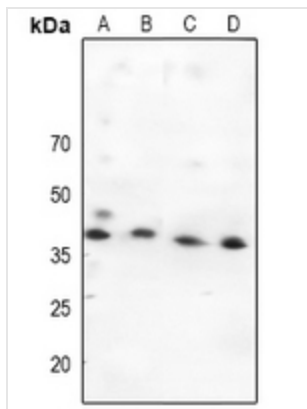
#### IF (Immunofluorescence)

Immunofluorescent analysis of MKK4 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with Alexa Fluor 647-conjugated secondary antibody (red) in PBS at room temperature in the dark.



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of MKK4 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



**WB (Western Blot)**  
Western blot analysis of MKK4 expression in HEK293T (A), A549 (B), K562 (C), PC3 (D) whole cell lysates.

### ADDITIONAL INFORMATION

|                                                    |                                    |
|----------------------------------------------------|------------------------------------|
| Related Product Information for anti-MKK4 antibody | Rabbit polyclonal antibody to MKK4 |
|----------------------------------------------------|------------------------------------|

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 526479851                                                                                                                     |
| NCBI GeneID                      | 6416                                                                                                                          |
| NCBI Accession #                 | NP_001268364.1                                                                                                                |
| NCBI GenBank Nucleotide #        | NM_001281435.1                                                                                                                |
| UniProt Accession #              | P45985; Q5U0B8; Q6FHX4; Q6P9H2; Q6PIE6; B2R7N7; B3KYB2; D3DTS5                                                                |
| Molecular Weight                 | 45,584 Da                                                                                                                     |
| NCBI Official Full Name          | dual specificity mitogen-activated protein kinase kinase 4 isoform 2                                                          |
| NCBI Official Synonym Full Names | mitogen-activated protein kinase kinase 4                                                                                     |
| NCBI Official Symbol             | MAP2K4                                                                                                                        |
| NCBI Official Synonym Symbols    | JNKK; MEK4; MKK4; SEK1; SKK1; JNKK1; SERK1; MAPKK4; PRKMK4; SAPKK1; SAPKK-1                                                   |
| NCBI Protein Information         | dual specificity mitogen-activated protein kinase kinase 4                                                                    |
| UniProt Protein Name             | Dual specificity mitogen-activated protein kinase kinase 4                                                                    |
| UniProt Gene Name                | MAP2K4                                                                                                                        |
| UniProt Synonym Gene Names       | JNKK1; MEK4; MKK4; PRKMK4; SEK1; SERK1; SKK1; MAP kinase kinase 4; MAPKK 4; MEK 4; SEK1; SAPK kinase 1; SAPKK-1; SAPKK1; JNKK |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.