

# Product Data Sheet

## Anti-MKK4 (pS80) Antibody

| Catalog #                | Source                                                                                                                                                                                                                                                                                                                               | Reactivity    | Applications      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|
| CPA2054                  | Rabbit                                                                                                                                                                                                                                                                                                                               | H, M, R, B, Z | WB, IH, IF/IC, IP |
| <b>Description</b>       | Rabbit polyclonal antibody to MKK4 (pS80)                                                                                                                                                                                                                                                                                            |               |                   |
| <b>Immunogen</b>         | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MKK4. The exact sequence is proprietary.                                                                                                                                                                                                  |               |                   |
| <b>Purification</b>      | The antibody was purified by immunogen affinity chromatography.                                                                                                                                                                                                                                                                      |               |                   |
| <b>Specificity</b>       | Recognizes endogenous levels of MKK4 (pS80) protein.                                                                                                                                                                                                                                                                                 |               |                   |
| <b>Clonality</b>         | Polyclonal                                                                                                                                                                                                                                                                                                                           |               |                   |
| <b>Form</b>              | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                                                                                                                                                                                                                            |               |                   |
| <b>Dilution</b>          | WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500), IP (1/10 - 1/100)                                                                                                                                                                                                                                                    |               |                   |
| <b>Gene Symbol</b>       | MAP2K4                                                                                                                                                                                                                                                                                                                               |               |                   |
| <b>Alternative Names</b> | JNKK1; MEK4; MKK4; 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; SEK1; Stress-activated protein kinase kinase 1; SAPK kinase 1; SAPKK-1; SAPKK1; c-Jun N-terminal kinase kinase 1; JNKK |               |                   |
| <b>Entrez Gene</b>       | 6416 (Human); 26398 (Mouse)                                                                                                                                                                                                                                                                                                          |               |                   |
| <b>SwissProt</b>         | P45985 (Human); P47809 (Mouse)                                                                                                                                                                                                                                                                                                       |               |                   |
| <b>Storage/Stability</b> | Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.                                                                                                                                                                                                                                     |               |                   |

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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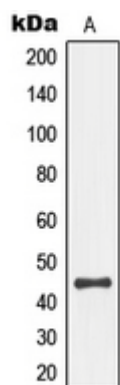
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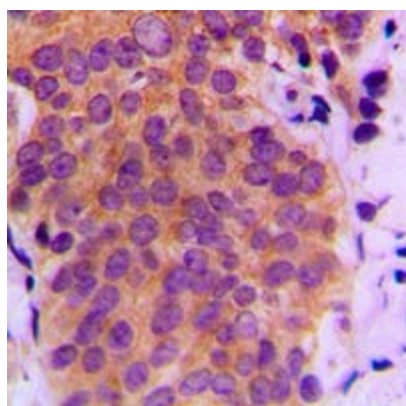
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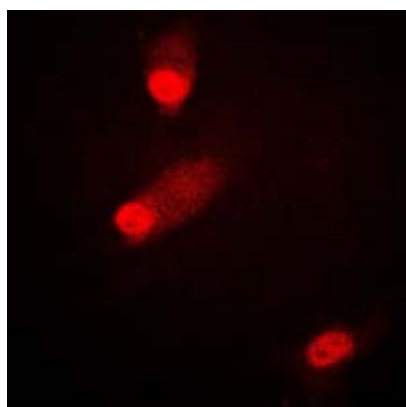
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Western blot analysis of MKK4 (pS80) expression in HEK293 UV-treated (A) whole cell lysates.



Immunohistochemical analysis of MKK4 (pS80) staining in human breast cancer 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.



Immunofluorescent analysis of MKK4 (pS80) staining in HEK293T 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 a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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