

**Anti-MKK3 (pT222) Antibody**  
**Rabbit polyclonal antibody to MKK3 (pT222)**  
**Catalog # AP60583****Specification**

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**Anti-MKK3 (pT222) Antibody - Product Information**

Application	<b>WB, IF</b>
Primary Accession	<a href="#">P46734</a>
Other Accession	<a href="#">O09110</a>
Reactivity	<b>Human, Mouse, Zebrafish</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>39318</b>

**Anti-MKK3 (pT222) Antibody - Additional Information****Gene ID** 5606**Other Names**

MEK3; MKK3; PRKMK3; SKK2; Dual specificity mitogen-activated protein kinase kinase 3; MAP kinase kinase 3; MAPKK 3; MAPK/ERK kinase 3; MEK 3; Stress-activated protein kinase kinase 2; SAPK kinase 2; SAPKK-2; SAPKK2

**Target/Specificity**

Recognizes endogenous levels of MKK3 (pT222) protein.

**Dilution**WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)  
IF~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-MKK3 (pT222) Antibody - Protein Information****Name** MAP2K3**Synonyms** MEK3, MKK3, PRKMK3, SKK2**Function**

Dual specificity kinase. Is activated by cytokines and environmental stress in vivo. Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinase p38. Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14.

### Tissue Location

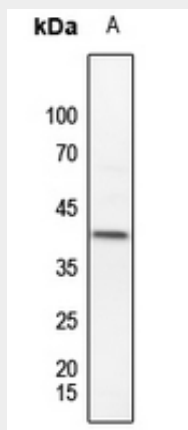
Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues

### Anti-MKK3 (pT222) Antibody - Protocols

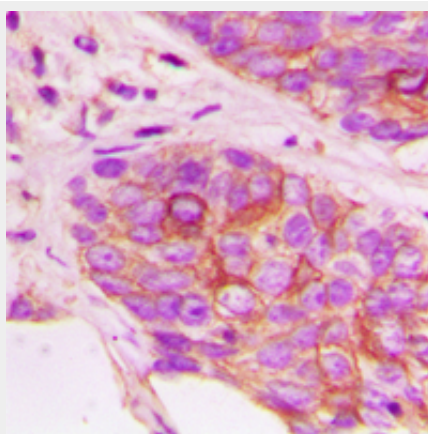
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

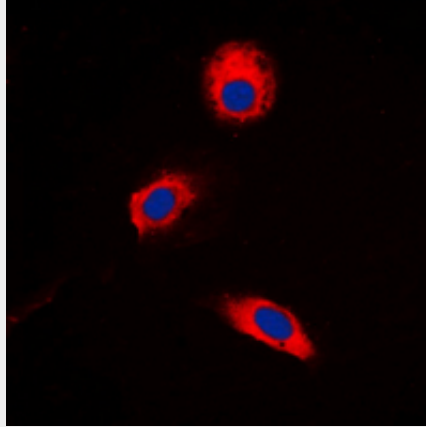
### Anti-MKK3 (pT222) Antibody - Images



Western blot analysis of MKK3 (pT222) expression in zebrafish (A) whole cell lysates.



Immunohistochemical analysis of MKK3 (pT222) 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 MKK3 (pT222) staining in HeLa 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. DAPI was used to stain the cell nuclei (blue).

#### **Anti-MKK3 (pT222) Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MKK3. The exact sequence is proprietary.