

#### DESCRIPTION

|                           |                                                                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                   |
| <b>Specificity</b>        | Detects human MKK7 in Western blots. Does not cross-react with other recombinant human mitogen-activated protein kinase kinases.                                                                        |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                     |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                               |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human MKK7<br>Met1-Arg419<br>Accession # O14733                                                                                                                     |
| <b>Conjugate</b>          | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                                                                                                                            |
|                           | *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

Mitogen-activated protein kinase kinase 7 (MKK7 or MAP2K7), also known as MEK7 and Jun kinase kinase 2 (JNKK2), is activated by proinflammatory cytokines and environmental stresses. Activation occurs through phosphorylation at Ser271 and Thr275 by several upstream MAPK kinase kinases (MAP3Ks). MKK7 is a dual specificity protein kinase, phosphorylating and activating the JNK family of MAP kinases at Thr and Tyr positions within the phosphoacceptor sequence Thr-Pro-Tyr.

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