# Human/Mouse/Rat MEKK2 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse $IgG_{2A}$ Clone # 722728

Catalog Number: FAB7128V

100 µg

## DESCRIPTION

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| **Species Reactivity** | Human/Mouse/Rat |
| **Specificity** | Detects recombinant human MEKK2 in direct ELISA and human, mouse, rat MEKK2 in Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human MEKK1, 3, or 4 is observed. |
| **Source** | Monoclonal Mouse $IgG_{2A}$ Clone # 722728 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | *E. coli*-derived recombinant human MEKK2<br>Asn42-Tyr264<br>Accession # Q9Y2U5 |
| **Conjugate** | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm |
| **Formulation** | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.*

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| **Western Blot** | Optimal dilution of this antibody should be experimentally determined. |
| **Immunocytochemistry** | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

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

## BACKGROUND

MAPK/ERK kinase kinase 2 (MEKK2) is a widely expressed 70 kDa member of the MEKK/STE11 subfamily of Ser/Thr kinases. It contains a PB1 domain (aa 43-122) which mediates dimerization with MEK5, a region with several phosphorylation sites, and a protein kinase domain (aa 357-617) that includes a site for activating phosphorylation at Thr524. Within aa 42-264, human MEKK2 shares 93% aa sequence identity with mouse and rat MEKK2. Activated MEKK2 translocates from the cytosol to the nucleus, where it forms a complex that binds and activates MKK7 in the c-Jun N-terminal kinase (JNK) pathway, relaying mitogenic and stress signals.

## PRODUCT SPECIFIC NOTICES

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