

DESCRIPTION

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	<i>E. coli</i> -derived recombinant human MEKK2 Asn42-Tyr264 Accession # Q9Y2U5
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	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.

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

PREPARATION AND STORAGE

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.

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