

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MKK4 in direct ELISAs. This antibody does not cross-react with recombinant human MKK7.
Source	Monoclonal Mouse IgG _{2B} Clone # 323042
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human MKK4 Met1-Asp399 Accession # P45985
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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

Mitogen-activated protein kinase kinase 4 (MKK4 or MAP2K4), also known as SAPK/ERK kinase 1 (SEK1) and Jun kinase kinase 1 (JNKK1), is activated by proinflammatory cytokines and environmental stresses. Activation occurs through phosphorylation at Ser257 and Thr261 by several upstream MAPK kinase kinases (MAP3Ks). MKK4 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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