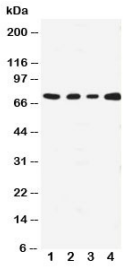
MEKK3 Antibody (R31024)

Catalog No.	Formulation	Size
R31024	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q99759
Applications	Western blot: 0.5-1ug/ml
Limitations	This MEKK3 antibody is available for research use only.



Western blot testing with MEKK3 antibody; Lane 1: HeLa; 2: A431; 3: MCF-7; 4: Jurkat cell lysate. Expected size ~71KD

Description

MAP3K3 (Mitogen-activated protein kinase kinase kinase 3), also known as MAP/ERK kinase kinase 3 (Mekk3), or MAPKKK3, is an enzyme that in humans is encoded by the MAP3K3 gene. MAP3K3 is contiguously distal to LYK5 on chromosome 17(Puffenberger et al., 2007). By yeast 2-hybrid analysis of a mouse T-cell cDNA library, Uhlik et al.(2003) showed that a C-terminal fragment of mouse Osm(CCM2) interacted with MAP3K3/Mekk3, which activates p38 in response to sorbitol-induced hyperosmotic conditions. Mekk3 and Osm colocalized in the cytoplasmic compartment of cotransfected cells, and the Mekk3-Osm complex was recruited to Rac1 and cytoskeletal actin-containing membrane ruffles in response to sorbitol treatment. Protein interaction assays showed that Osm interacted directly with the Mekk3

substrate Mkk3(MAP2K3), with actin, and with both GDP- and GTP-loaded Rac1. Uhlik et al.(2003) concluded that the RAC1-OSM-MEKK3-MKK3 complex is required for regulation of p38 activity in response to osmotic shock.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the MEKK3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human MAP3K3 (MNDLVALQMNRRHRM) was used as the immunogen for this MEKK3 antibody.

Storage

After reconstitution, the MEKK3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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