

Anti-MEKK3 Antibody

Catalog # ABO11228

Product Information

Application	WB, IHC-P
Primary Accession	Q61084
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Mitogen-activated protein kinase kinase 3(MAP3K3) detection. Tested with WB, IHC-P in Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	26406
Other Names	Mitogen-activated protein kinase kinase kinase 3, 2.7.11.25, MAPK/ERK kinase kinase 3, MEK kinase 3, MEKK 3, Map3k3, Mekk3
Calculated MW	70776
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, Mouse, By Heat Western blot, 0.1-0.5 µg/ml, Mouse, Rat
Source	Eukaryota
Protein Name	Mitogen-activated protein kinase kinase kinase 3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse MEKK3(11-25aa MKDLVALQMSRRTRL), different from the related rat sequence by two amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family.

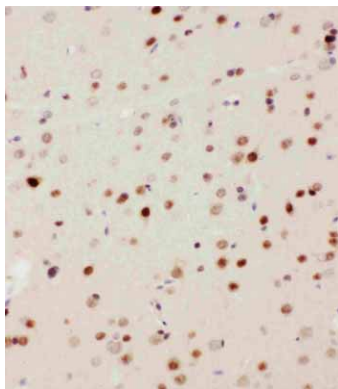
Protein Information

Name	Map3k3
Synonyms	Mekk3
Function	Component of a protein kinase signal transduction cascade. Mediates activation of the NF-kappa-B, AP1 and DDIT3 transcriptional regulators.

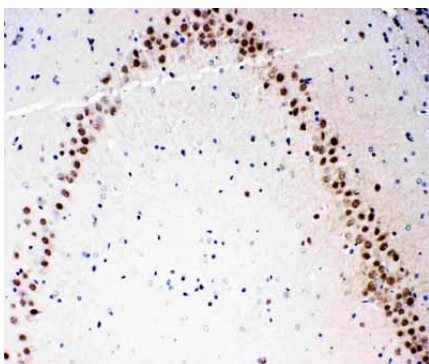
Background

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 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.

Images

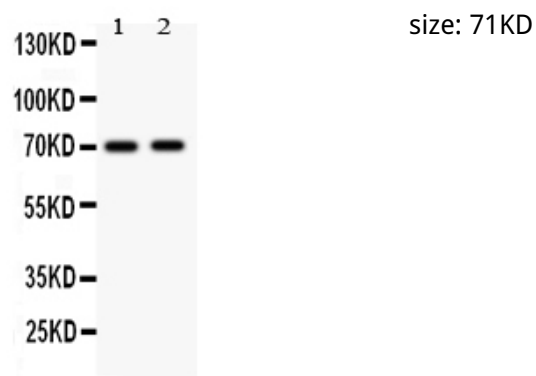


Anti-MEKK3 antibody, ABO11228, IHC(P)IHC(P): Rat Brain Tissue



Anti-MEKK3 antibody, ABO11228, IHC(P)IHC(P): Rat Brain Tissue

Anti-MEKK3 antibody, ABO11228, Western blotting
lanes: Anti MAP3K3 (ABO11228) at 0.5ug/ml
Lane 1: Rat Brain Tissue Lysate at 50ug
Lane 2: Mouse Brain Tissue Lysate at 50ug
Predicted bind size: 71KDa
Observed bind



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