

Anti-MEKK3/MAP3K3 Antibody Picoband®

Catalog Number: PA1925

About Map3k3

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.

Overview

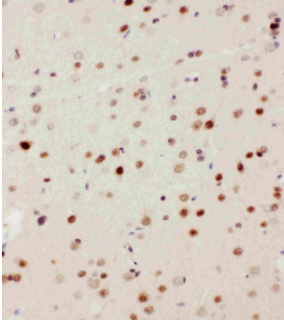
Product Name	Anti-MEKK3/MAP3K3 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-MEKK3/MAP3K3 Antibody catalog # PA1925. Tested in IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q61084

Technical Details

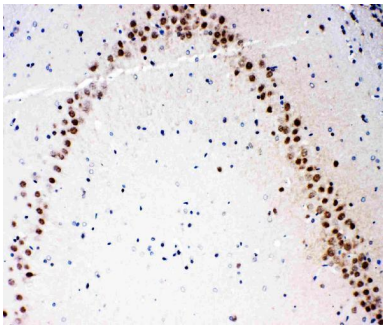
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse MEKK3, different from the related rat sequence by two amino acids.
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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Rat, Mouse Western blot, 0.1-0.5ug/ml, Mouse, Rat

Anti-MEKK3/MAP3K3 Antibody Picoband® (PA1925) Images



Anti-MEKK3 antibody, PA1925, IHC(P)IHC(P): Rat Brain Tissue



Anti-MEKK3 antibody, PA1925, IHC(P)IHC(P): Rat Brain Tissue



Anti-MEKK3 antibody, PA1925, Western blotting
All lanes:
Anti MAP3K3 (PA1925) at 0.5ug/ml
Lane 1: Rat Brain Tissue Lysate at 50ug
Lane 2: Mouse Brain Tissue Lysate at 50ug
Predicted bind size: 71KD
Observed bind size: 71KD

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Anti-MEKK3/MAP3K3 Antibody

For Research Use Only. Not for use in diagnostic procedures.