

Anti-MEK3 Antibody
Catalog # ABO10702**Specification**

Anti-MEK3 Antibody - Product Information

Application	WB
Primary Accession	P46734
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Dual specificity mitogen-activated protein kinase kinase 3(MAP2K3) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MEK3 Antibody - Additional Information

Gene ID 5606

Other Names

Dual specificity mitogen-activated protein kinase kinase 3, MAP kinase kinase 3, MAPKK 3, 2.7.12.2, MAPK/ERK kinase 3, MEK 3, Stress-activated protein kinase kinase 2, SAPK kinase 2, SAPKK-2, SAPKK2, MAP2K3, MEK3, MKK3, PRKMK3, SKK2

Calculated MW

39318 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Tissue Specificity

Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues.

Protein Name

Dual specificity mitogen-activated protein kinase kinase 3(MAP kinase kinase 3/MAPKK 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 human MEK3(42-58aa RNLDSRTFITIGDRNFE), identical to the related mouse and rat sequences.

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. MAP kinase kinase subfamily.

Anti-MEK3 Antibody - Protein Information

Name MAP2K3

Synonyms MEK3, MKK3, PRKMK3, SKK2

Function

Dual specificity kinase. Is activated by cytokines and environmental stress in vivo. Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinase p38. Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14.

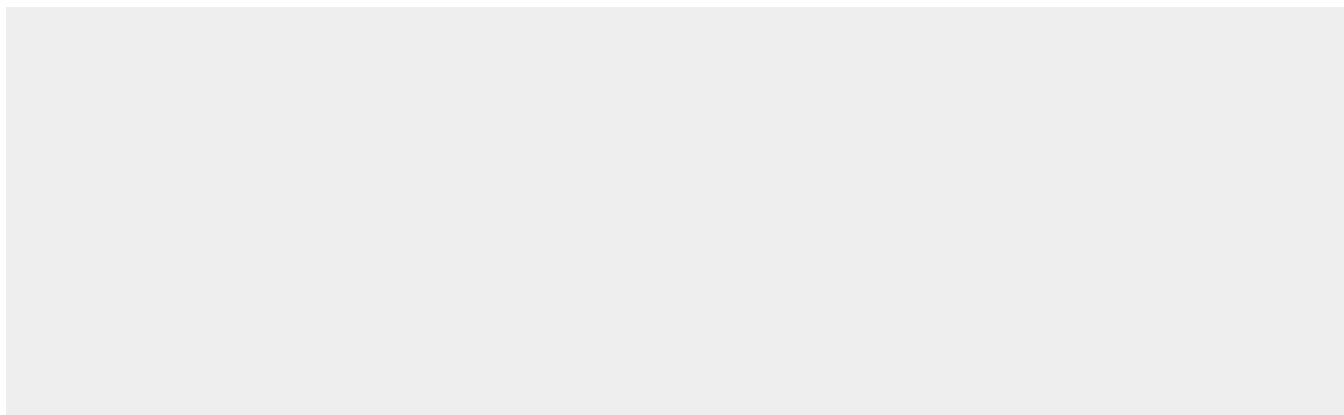
Tissue Location

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Anti-MEK3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-MEK3 Antibody - Images



Anti-MEK3 antibody, ABO10702, All Western blotting
All lanes: Anti-MAP2K3(ABO10702) at 0.5ug/ml
Lane 1: Rat Skeletal Muscle Tissue Lysate at 40ug
Lane 2: Rat Kidney Tissue Lysate at 40ug
Lane 3: Rat Spleen Tissue Lysate at 40ug
Lane 4: HELA Whole Cell Lysate at 40ug
Lane 5: A549 Whole Cell Lysate at 40ug
Lane 6: JURKAT Whole Cell Lysate at 40ug
Lane 7: CEM Whole Cell Lysate at 40ug
Predicted bind size: 39KD
Observed bind size: 39KD

Anti-MEK3 Antibody - Background

Dual specificity mitogen-activated protein kinase kinase 3 is an enzyme that in humans is encoded by the MAP2K3 gene. The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic transformation of primary cells. Rampoldi et al.(1997) localized the MAP2K3 gene to 17q11.2.