

**Anti-MEK3 Antibody**  
**Catalog # ABO10701****Specification**

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**Anti-MEK3 Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P46734</a>
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, IHC-P 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**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human MEK3(320-334aa MEHPFFTLHKTKKTD), 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.

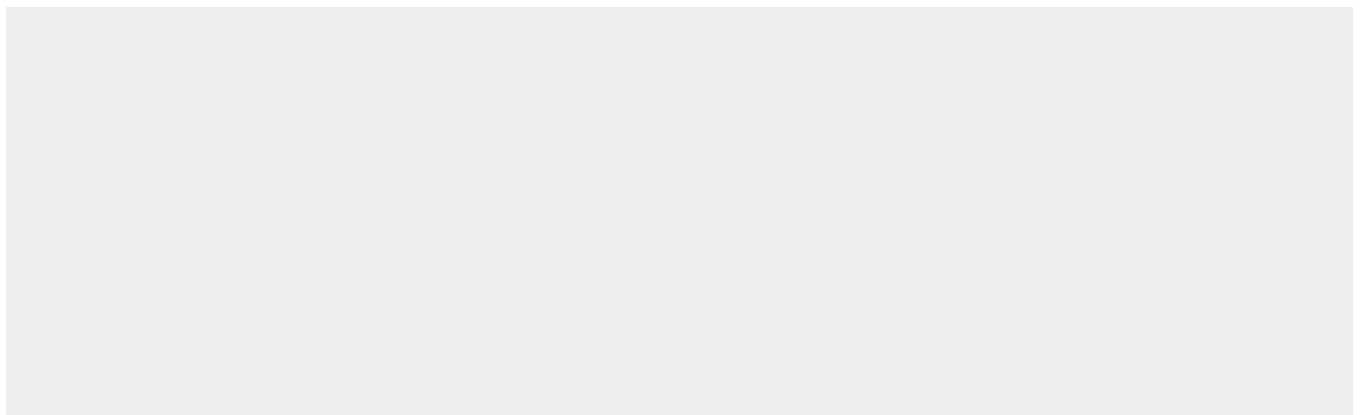
**Tissue Location**

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**Anti-MEK3 Antibody - Protocols**

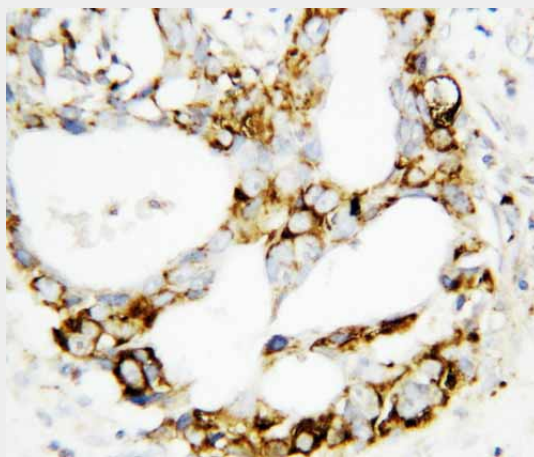
Provided below are standard protocols that you may find useful for product applications.

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

**Anti-MEK3 Antibody - Images**



Anti-MEK3 antibody, ABO10701, Western blotting  
Lane 1: Rat Spleen Tissue Lysate  
Lane 2: Rat Thymus Tissue Lysate  
Lane 3: Rat Skeletal Muscle Tissue Lysate  
Lane 4: Rat Kidney Tissue Lysate  
Lane 5: MCF-7 Cell Lysate  
Lane 6: HELA Cell Lysate  
Lane 7: RAJI Cell Lysate  
Lane 8: CEM Cell Lysate  
Lane 9: COLO320 Cell Lysate



Anti-MEK3 antibody, ABO10701, IHC(P)IHC(P): Human Mammary Cancer Tissue

#### **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 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.