

# Anti-MEK3 Antibody

Catalog # ABO10702

## Product Information

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                                                                  |
| <b>Primary Accession</b> | <a href="#">P46734</a>                                                                                                                              |
| <b>Host</b>              | Rabbit                                                                                                                                              |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                                                                   |
| <b>Clonality</b>         | Polyclonal                                                                                                                                          |
| <b>Format</b>            | Lyophilized                                                                                                                                         |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Dual specificity mitogen-activated protein kinase kinase 3(MAP2K3) detection. Tested with WB in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                |

## Additional Information

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| <b>Gene ID</b>             | 5606                                                                                                                                                                                                                                     |
| <b>Other Names</b>         | 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 |
| <b>Calculated MW</b>       | 39318                                                                                                                                                                                                                                    |
| <b>Application Details</b> | Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse                                                                                                                                                                                           |
| <b>Tissue Specificity</b>  | Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues.                                                                                                                                        |
| <b>Source</b>              | Eukaryota                                                                                                                                                                                                                                |
| <b>Protein Name</b>        | Dual specificity mitogen-activated protein kinase kinase 3(MAP kinase kinase 3/MAPKK 3)                                                                                                                                                  |
| <b>Contents</b>            | 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> .                                                                                                            |
| <b>Immunogen</b>           | A synthetic peptide corresponding to a sequence at the N-terminus of human MEK3(42-58aa RNLSRFTFITIGDRNFE), identical to the related mouse and rat sequences.                                                                            |
| <b>Purification</b>        | Immunogen affinity purified.                                                                                                                                                                                                             |
| <b>Cross Reactivity</b>    | No cross reactivity with other proteins                                                                                                                                                                                                  |

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|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>               | At -20 °C for one year. After r ° Constitution, 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. |
| <b>Sequence Similarities</b> | Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.                                                                            |

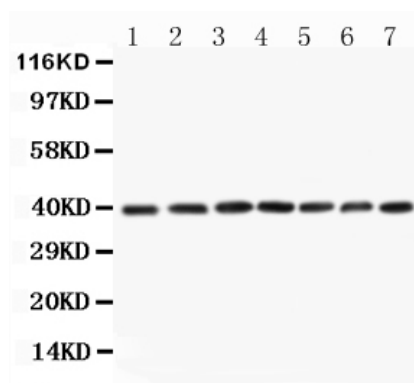
## Protein Information

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|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>            | MAP2K3                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | MEK3, MKK3, PRKMK3, SKK2                                                                                                                                                                                                                                                                                                         |
| <b>Function</b>        | 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. |
| <b>Tissue Location</b> | Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues                                                                                                                                                                                                                                 |

## 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.

## 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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.