

**Anti-MEK3 Picoband Antibody**  
Catalog # ABO12449

**Specification**

**Anti-MEK3 Picoband Antibody - Product Information**

Application	WB, IHC
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 Picoband 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, Mouse, Rat, By Heat  
Western blot, 0.1-0.5 µg/ml, Human, 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

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>N.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human MEK3 (311-347aa AERMSYLELMEHPFFTLHKTKKTDIAAFVKEILGEDS), identical to the related mouse sequence.

**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.**

**Anti-MEK3 Picoband 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.

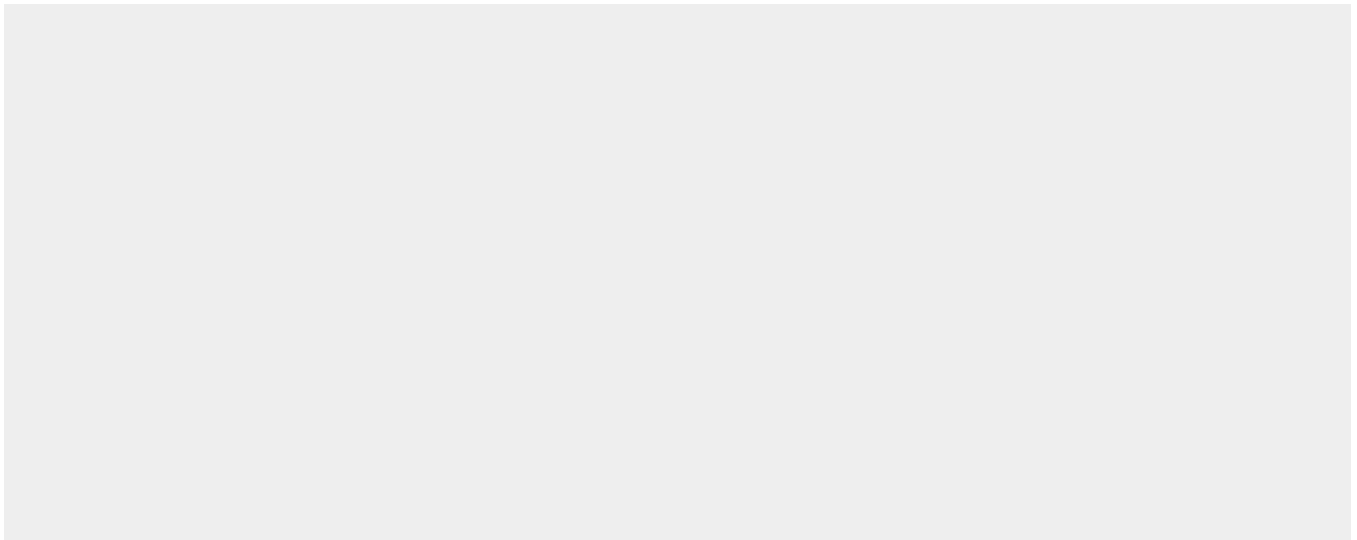
**Tissue Location**

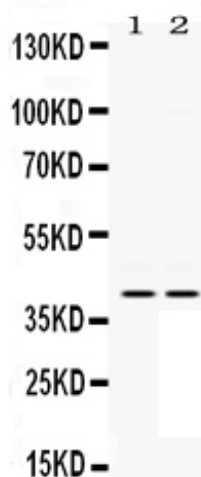
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**Anti-MEK3 Picoband Antibody - Protocols**

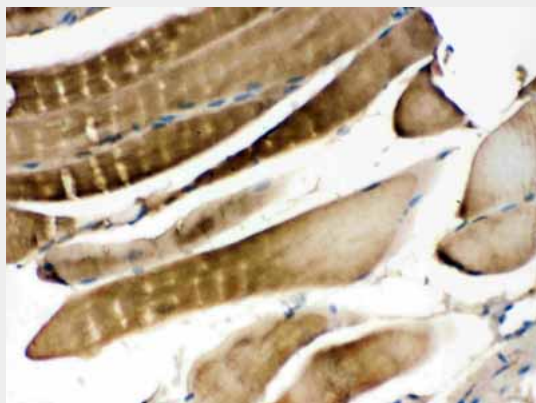
Provided below are standard protocols that you may find useful for product applications.

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

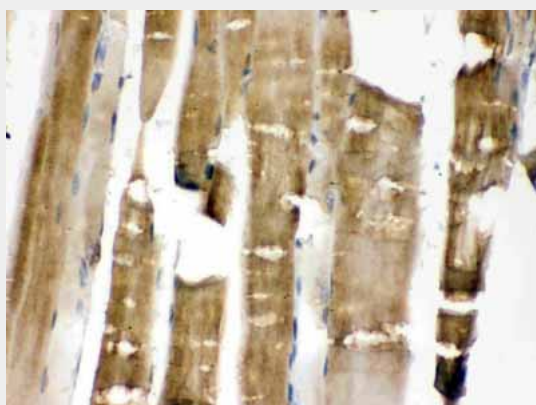
**Anti-MEK3 Picoband Antibody - Images**



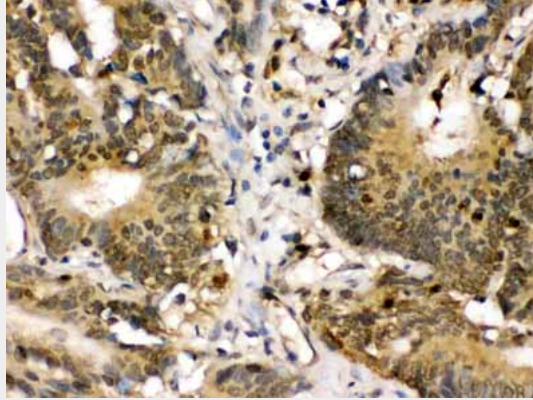
Anti- MEK3 Picoband antibody, ABO12449, Western blotting All lanes: Anti MEK3 (ABO12449) at 0.5ug/ml Lane 1: Mouse Spleen Tissue Lysate at 50ug Lane 2: HELA Whole Cell Lysate at 40ug Predicted bind size: 40KD Observed bind size: 40KD



Anti- MEK3 Picoband antibody, ABO12449, IHC(P) IHC(P): Mouse Skeletal Muscle Tissue



Anti- MEK3 Picoband antibody, ABO12449, IHC(P) IHC(P): Rat Skeletal Muscle Tissue



Anti- MEK3 Picoband antibody, ABO12449, IHC(P)IHC(P): Human Intestinal Cancer Tissue

### **Anti-MEK3 Picoband 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. And 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.