

**Phospho-MEK3-S189 Antibody Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP3160a****Specification**

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**Phospho-MEK3-S189 Antibody Blocking Peptide - Product Information**Primary Accession [P46734](#)**Phospho-MEK3-S189 Antibody Blocking Peptide - Additional Information****Gene ID** 5606**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP3160a](/product/products/AP3160a) was selected from the 251-265 region of human Phospho-MEK3-S189. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Phospho-MEK3-S189 Antibody Blocking Peptide - 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**

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

## **Phospho-MEK3-S189 Antibody Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **Phospho-MEK3-S189 Antibody Blocking Peptide - Images**

## **Phospho-MEK3-S189 Antibody Blocking Peptide - Background**

MEK3 is a dual specificity protein kinase that belongs to the Ser/Thr protein kinase family. This kinase is a direct activator of MAP kinases in response to various environmental stresses or mitogenic stimuli. It has been shown to activate MAPK8/JNK1, MAPK9/JNK2, and MAPK14/p38, but not MAPK1/ERK2 or MAPK3/ERK3. This kinase is phosphorylated, and thus activated by MAP3K1/MEKK. The knockout studies in mice suggested the roles of this kinase in mediating survival signal in T cell development, as well as in the organogenesis of liver.

## **Phospho-MEK3-S189 Antibody Blocking Peptide - References**

Gensch, E., et al., J. Biol. Chem. 279(37):39085-39093 (2004).Woo, J.H., et al., Oncogene 23(10):1845-1853 (2004).Dirsch, V.M., et al., Oncogene 23(8):1586-1593 (2004).Ho, D.T., et al., J. Biol. Chem. 278(35):32662-32672 (2003).Sundarrajan, M., et al., Arthritis Rheum. 48(9):2450-2460 (2003).