

**Mouse Map2k6 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16108a****Specification**

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**Mouse Map2k6 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P70236](#)**Mouse Map2k6 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 26399**Other Names**

Dual specificity mitogen-activated protein kinase kinase 6, MAP kinase kinase 6, MAPKK 6, MAPK/ERK kinase 6, MEK 6, SAPKK3, Map2k6, Prkmk6, Sapkk3

**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.

**Mouse Map2k6 Antibody (N-term) Blocking Peptide - Protein Information****Name** Map2k6**Synonyms** Prkmk6, Sapkk3**Function**

Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. With MAP3K3/MKK3, catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in the MAP kinases p38 MAPK11, MAPK12, MAPK13 and MAPK14 and plays an important role in the regulation of cellular responses to cytokines and all kinds of stresses. Especially, MAP2K3/MKK3 and MAP2K6/MKK6 are both essential for the activation of MAPK11 and MAPK13 induced by environmental stress, whereas MAP2K6/MKK6 is the major MAPK11 activator in response to TNF. MAP2K6/MKK6 also phosphorylates and activates PAK6. The p38 MAP kinase signal transduction pathway leads to direct activation of transcription factors. Nuclear targets of p38 MAP kinase include the transcription factors ATF2 and ELK1. Within the p38 MAPK signal transduction pathway, MAP3K6/MKK6 mediates phosphorylation of STAT4 through MAPK14 activation, and is therefore required for STAT4 activation and STAT4-regulated gene expression in response to IL-12 stimulation. The pathway is also crucial for IL-6-induced SOCS3 expression and down-regulation of IL-6-mediated gene induction; and for IFNG-dependent gene transcription. Has a role in osteoclast differentiation through NF- $\kappa$ B transactivation by TNFSF11, and in endochondral ossification and since SOX9 is another likely downstream target of

the p38 MAPK pathway. MAP2K6/MKK6 mediates apoptotic cell death in thymocytes. Acts also as a regulator for melanocytes dendricity, through the modulation of Rho family GTPases.

**Cellular Location**

Nucleus. Cytoplasm. Cytoplasm, cytoskeleton. Note=Binds to microtubules

**Mouse Map2k6 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**Mouse Map2k6 Antibody (N-term) Blocking Peptide - Images****Mouse Map2k6 Antibody (N-term) Blocking Peptide - Background**

Map2k6 catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in MAP kinase p38 exclusively.

**Mouse Map2k6 Antibody (N-term) Blocking Peptide - References**

Remy, G., et al. Cell. Signal. 22(4):660-667(2010)Sorkin, L.S., et al. Neuroscience 162(2):462-471(2009)Yoshizawa, T., et al. J. Immunol. 183(2):1360-1367(2009)Bulat, N., et al. J. Lipid Res. 50(1):81-89(2009)Yamashita, T., et al. Biochem. Biophys. Res. Commun. 365(2):252-257(2008)