

**Phospho-MAP2K2(T394) Antibody Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP3489a****Specification**

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**Phospho-MAP2K2(T394) Antibody Blocking peptide - Product Information**Primary Accession [P36507](#)**Phospho-MAP2K2(T394) Antibody Blocking peptide - Additional Information****Gene ID** 5605**Other Names**

Dual specificity mitogen-activated protein kinase kinase 2, MAP kinase kinase 2, MAPKK 2, ERK activator kinase 2, MAPK/ERK kinase 2, MEK 2, MAP2K2, MEK2, MKK2, PRKMK2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP3489a](/product/products/AP3489a) was selected from the region of human Phospho-MAP2K2-T394. 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-MAP2K2(T394) Antibody Blocking peptide - Protein Information****Name** MAP2K2**Synonyms** MEK2, MKK2, PRKMK2**Function**

Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates the ERK1 and ERK2 MAP kinases (By similarity). Activates BRAF in a KSR1 or KSR2-dependent manner; by binding to KSR1 or KSR2 releases the inhibitory intramolecular interaction between KSR1 or KSR2 protein kinase and N-terminal domains which promotes KSR1 or KSR2-BRAF dimerization and BRAF activation (PubMed:[29433126](http://www.uniprot.org/citations/29433126)).

**Cellular Location**

Cytoplasm. Membrane; Peripheral membrane protein. Note=Membrane localization is probably

regulated by its interaction with KSR1.

### **Phospho-MAP2K2(T394) Antibody Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **Phospho-MAP2K2(T394) Antibody Blocking peptide - Images**

### **Phospho-MAP2K2(T394) Antibody Blocking peptide - Background**

MAP2K2 is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. The inhibition or degradation of this kinase is found to be involved in the pathogenesis of Yersinia and anthrax.

### **Phospho-MAP2K2(T394) Antibody Blocking peptide - References**

Burroughs, K.D., et al., Mol. Cancer Res. 1(4):312-322 (2003). Tran, H., et al., Mol. Cell. Biol. 23(20):7177-7188 (2003). Li, S.P., et al., Cancer Res. 63(13):3473-3477 (2003). Li, Y., et al., J. Biol. Chem. 278(16):13663-13671 (2003). Liu, X., et al., J. Biol. Chem. 277(42):39312-39319 (2002).