10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MAP2K2 Antibody (T394) Blocking Peptide

Synthetic peptide
Catalog # BP7961d

Specification

MAP2K2 Antibody (T394) Blocking Peptide - Product Information

Primary Accession P36507

MAP2K2 Antibody (T394) 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 AP7961d was selected from the T394 region of human MAP2K2. 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.

MAP2K2 Antibody (T394) 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).

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

regulated by its interaction with KSR1.

MAP2K2 Antibody (T394) Blocking Peptide - Protocols

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

- Blocking Peptides

MAP2K2 Antibody (T394) Blocking Peptide - Images

MAP2K2 Antibody (T394) 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.

MAP2K2 Antibody (T394) 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).