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MEK5 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7906a

Specification

MEK5 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q13163

MEK5 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 5607

Other Names
Dual specificity mitogen-activated protein kinase kinase 5, MAP kinase kinase 5, MAPKK 5, MAPK/ERK kinase 5, MEK 5, MAP2K5, MEK5, MKK5, PRKMK5

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7906a was selected from the C-term region of human MEK5 . 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.

MEK5 Antibody (C-term) Blocking Peptide - Protein Information

Name MAP2K5

Synonyms MEK5, MKK5, PRKMK5

Function
Acts as a scaffold for the formation of a ternary MAP3K2/MAP3K3-MAP3K5-MAPK7 signaling complex. Activation of this pathway appears to play a critical role in protecting cells from stress-induced apoptosis, neuronal survival and cardiac development and angiogenesis. As part of the MAPK/ERK signaling pathway, acts as a negative regulator of apoptosis in cardiomyocytes via promotion of STUB1/CHIP-mediated ubiquitination and degradation of ICER-type isoforms of CREM (By similarity).

Tissue Location
Expressed in many adult tissues. Abundant in heart and skeletal muscle

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MEK5 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

MEK5 Antibody (C-term) Blocking Peptide - Images

MEK5 Antibody (C-term) Blocking Peptide - Background

MEK5 is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically interacts with and activates MAPK7/ERK5. This kinase itself can be phosphorylated and activated by MAP3K3/MEKK3, as well as by atypical protein kinase C isoforms (aPKCs). The signal cascade mediated by this kinase is involved in growth factor stimulated cell proliferation and muscle cell differentiation.

MEK5 Antibody (C-term) Blocking Peptide - References

Mehta, P.B., et al., Oncogene 22(9):1381-1389 (2003).Weldon, C.B., et al., Surgery 132(2):293-301 (2002).Dinev, D., et al., EMBO Rep. 2(9):829-834 (2001).Diaz-Meco, M.T., et al., Mol. Cell. Biol. 21(4):1218-1227 (2001).Nicol, R.L., et al., EMBO J. 20(11):2757-2767 (2001).