

MAP2K5 Antibody (S142) Blocking peptide
Synthetic peptide
Catalog # BP7906e**Specification**

MAP2K5 Antibody (S142) Blocking peptide - Product InformationPrimary Accession [Q13163](#)**MAP2K5 Antibody (S142) 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 [AP7906e](/product/products/AP7906e) was selected from the S142 region of human MAP2K5. 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.

MAP2K5 Antibody (S142) 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

MAP2K5 Antibody (S142) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

MAP2K5 Antibody (S142) Blocking peptide - Images**MAP2K5 Antibody (S142) Blocking peptide - Background**

MAP2K5 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.

MAP2K5 Antibody (S142) Blocking peptide - References

Raviv,Z.,J. Cell. Sci. 117 (PT 9), 1773-1784 (2004)Kato,Y.,EMBO J. 16 (23), 7054-7066 (1997)English,J.M.,J. Biol. Chem. 274 (44), 31588-31592 (1999)