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

MAP2K5 Antibody (Center T315) Blocking Peptide

Synthetic peptide
Catalog # BP14316c

Specification

MAP2K5 Antibody (Center T315) Blocking Peptide - Product Information

Primary Accession Q13163

MAP2K5 Antibody (Center T315) 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

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 (Center T315) 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 (Center T315) Blocking Peptide - Protocols

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

- Blocking Peptides

MAP2K5 Antibody (Center T315) Blocking Peptide - Images

MAP2K5 Antibody (Center T315) Blocking Peptide - Background

This gene encodes a member of the dual specificity proteinkinase family, which functions as a mitogen-activated protein (MAP)kinase kinase. MAP kinases, also known as extracellularsignal-regulated kinases (ERKs), act as an integration point formultiple biochemical signals. This protein phosphorylates andactivates p38 MAP kinase in response to inflammatory cytokines orenvironmental stress. As an essential component of p38 MAP kinasemediated signal transduction pathway, this gene is involved in manycellular processes such as stress induced cell cycle arrest,transcription activation and apoptosis.

MAP2K5 Antibody (Center T315) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Huang, H.M., et al. J. Cell. Physiol. 223(3):687-694(2010)Sturchler, E., et al. Biochemistry 49(19):4094-4102(2010)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Ding, N., et al. Zhongguo Wei Zhong Bing Ji Jiu Yi Xue 21(10):597-600(2009)