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Mouse Mark3 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP14270b

Specification

Mouse Mark3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q03141

Mouse Mark3 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 17169

Other Names
MAP/microtubule affinity-regulating kinase 3, ELKL motif kinase 2, EMK-2, MPK-10, Mark3, Emk2, Mpk10

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.

Mouse Mark3 Antibody (C-term) Blocking Peptide - Protein Information

Name Mark3

Synonyms Emk2, Mpk10

Function
Serine/threonine-protein kinase. Involved in the specific phosphorylation of microtubule-associated proteins for MAP2 and MAP4. Phosphorylates the microtubule-associated protein MAPT/TAU. Phosphorylates CDC25C on 'Ser-216'. Regulates localization and activity of some histone deacetylases by mediating phosphorylation of HDAC7, promoting subsequent interaction between HDAC7 and 14-3-3 and export from the nucleus. Regulates localization and activity of MITF by mediating its phosphorylation, promoting subsequent interaction between MITF and 14-3-3 and retention in the cytosol. Negatively regulates the Hippo signaling pathway and antagonizes the phosphorylation of LATS1. Cooperates with DLG5 to inhibit the kinase activity of STK3/MST2 toward LATS1. Phosphorylates PKP2 and KSR1.

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P27448}; Peripheral membrane protein {ECO:0000250|UniProtKB:P27448}. Cell projection, dendrite {ECO:0000250|UniProtKB:P27448}. Cytoplasm {ECO:0000250|UniProtKB:P27448}

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Mouse Mark3 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

Mouse Mark3 Antibody (C-term) Blocking Peptide - Images

Mouse Mark3 Antibody (C-term) Blocking Peptide - Background

Involved in the specific phosphorylation of microtubule-associated proteins for tau, MAP2 and MAP4. Phosphorylates CDC25C (By similarity).

Mouse Mark3 Antibody (C-term) Blocking Peptide - References

Lennerz, J.K., et al. Mol. Cell. Biol. 30(21):5043-5056(2010)Schwarz, T., et al. Biochem. Biophys. Res. Commun. 394(4):890-895(2010)Hezel, A.F., et al. Mol. Cell. Biol. 28(7):2414-2425(2008)Wang, C., et al. Acta Pharmacol. Sin. 28(3):334-338(2007)Tochio, N., et al. Protein Sci. 15(11):2534-2543(2006)