

MARK3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7230b**Specification**

MARK3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P27448](#)**MARK3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 4140**Other Names**

MAP/microtubule affinity-regulating kinase 3, C-TAK1, cTAK1, Cdc25C-associated protein kinase 1, ELKL motif kinase 2, EMK-2, Protein kinase STK10, Ser/Thr protein kinase PAR-1, Par-1a, Serine/threonine-protein kinase p78, MARK3, CTAK1, EMK2

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.

MARK3 Antibody (C-term) Blocking Peptide - Protein Information**Name** MARK3**Synonyms** CTAK1, EMK2**Function**

Serine/threonine-protein kinase (PubMed: [16822840](http://www.uniprot.org/citations/16822840)), PubMed: [16980613](http://www.uniprot.org/citations/16980613), PubMed: [23666762](http://www.uniprot.org/citations/23666762)). Involved in the specific phosphorylation of microtubule-associated proteins for MAP2 and MAP4. Phosphorylates the microtubule-associated protein MAPT/TAU (PubMed: [23666762](http://www.uniprot.org/citations/23666762)). Phosphorylates CDC25C on 'Ser-216' (PubMed: [12941695](http://www.uniprot.org/citations/12941695)). 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 (PubMed: [16980613](http://www.uniprot.org/citations/16980613)). Regulates localization and activity of MITF by mediating its phosphorylation, promoting subsequent interaction between MITF and 14-3-3 and retention in the cytosol (PubMed: [16822840](http://www.uniprot.org/citations/16822840)). 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 (PubMed:28087714). Phosphorylates PKP2 and KSR1 (PubMed:12941695).

Cellular Location

Cell membrane; Peripheral membrane protein. Cell projection, dendrite. Cytoplasm

Tissue Location

Ubiquitous.

MARK3 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MARK3 Antibody (C-term) Blocking Peptide - Images**MARK3 Antibody (C-term) Blocking Peptide - Background**

MARK proteins are involved in the specific phosphorylation of microtubule-associated proteins for tau, MAP2, and MAP4. MARK3 was originally identified as a marker that was induced by treatment with DNA damaging agents, and loss of MARK3 was found with carcinogenesis in the pancreas. MARK3 may be involved in cell cycle regulation, and alterations in the MARK3 gene may lead to carcinogenesis.

MARK3 Antibody (C-term) Blocking Peptide - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).Sun, T.Q., et al., Nat. Cell Biol. 3(7):628-636 (2001).Peng, C.Y., et al., Cell Growth Differ. 9(3):197-208 (1998).