

C-TAK1 / MARK3 Antibody (aa1-50)
Rabbit Polyclonal Antibody
Catalog # ALS14779**Specification**

C-TAK1 / MARK3 Antibody (aa1-50) - Product Information

Application	WB
Primary Accession	P27448
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	84kDa KDa

C-TAK1 / MARK3 Antibody (aa1-50) - Additional Information**Gene ID** 4140**Other Names**

MAP/microtubule affinity-regulating kinase 3, 2.7.11.1, 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

Target/Specificity

MARK3 Antibody detects endogenous levels of total MARK3 protein.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

C-TAK1 / MARK3 Antibody (aa1-50) is for research use only and not for use in diagnostic or therapeutic procedures.

C-TAK1 / MARK3 Antibody (aa1-50) - 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). 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). 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.

Volume

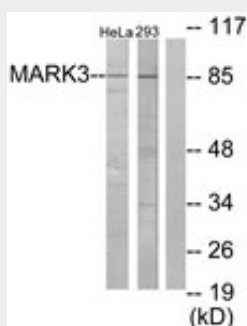
50 µl

C-TAK1 / MARK3 Antibody (aa1-50) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

C-TAK1 / MARK3 Antibody (aa1-50) - Images



Western blot of extracts from HeLa/293 cells, using MARK3 Antibody.

C-TAK1 / MARK3 Antibody (aa1-50) - Background

Involved in the specific phosphorylation of microtubule-associated proteins for tau, MAP2 and MAP4. 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.

C-TAK1 / MARK3 Antibody (aa1-50) - References

Peng C.Y.,et al.Cell Growth Differ. 9:197-208(1998).
Waggoner S.N.,et al.Submitted (JUN-1999) to the EMBL/GenBank/DDBJ databases.
Sun T.-Q.,et al.Nat. Cell Biol. 3:628-636(2001).
Drewes G.,et al.Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.
Maheshwari K.K.,et al.Submitted (JAN-1992) to the EMBL/GenBank/DDBJ databases.