

MARK3 Rabbit mAb

Catalog # AP78123

Product Information

Application WB, IF, FC, ICC, IP

Primary Accession <u>P27448</u>

Reactivity Human, Mouse

Host Rabbit

Clonality Monoclonal Antibody

Isotype IgG

Conjugate Unconjugated

Immunogen A synthesized peptide derived from human MARK3

Purification Affinity Chromatography

Calculated MW 84429

Additional Information

Gene ID 4140

Other Names MARK3

Dilution WB~~1/500-1/1000 IF~~1:50~200 FC~~1:10~50 ICC~~N/A IP~~N/A

Format Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02%

sodium azide and 50% glycerol.

Storage Store at 4°C short term. Aliquot and store at -20°C long term. Avoid

freeze/thaw cycles.

Protein Information

Name MARK3

Synonyms CTAK1, EMK2

Function Serine/threonine-protein kinase (PubMed: <u>16822840</u>, PubMed: <u>16980613</u>,

PubMed: <u>23666762</u>). Involved in the specific phosphorylation of

microtubule-associated proteins for MAP2 and MAP4. Phosphorylates the

microtubule-associated protein MAPT/TAU (PubMed:23666762).

Phosphorylates CDC25C on 'Ser-216' (PubMed: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

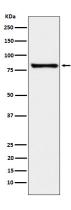
(PubMed: <u>28087714</u>). Phosphorylates PKP2 and KSR1 (PubMed: <u>12941695</u>).

Cellular Location Cell membrane; Peripheral membrane protein. Cell projection, dendrite.

Cytoplasm

Tissue Location Ubiquitous.

Images



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