

Recombinant Human MARK3, GST-tagged, Active

Cat. No. MARK3-349H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MARK3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 110 kDa.
Species	Human
Source	Sf9 Cells
Description	Microtubule affinity-regulating kinase 3 (MARK3) is a member of the PAR-1/MARK kinase family which play critical roles in polarity and cell cycle control and are regulated by 14-3-3 scaffolding proteins, as well as the LKB1 tumour suppressor kinase and atypical protein kinase C (PKC). MARK3 is a dual-specificity protein kinase that controls entry into mitosis by dephosphorylating CDC2. MARK3 seems to be a positive regulator of the beta-catenin pathway and an inhibitor of the JNK pathway. MARK3, a regulator of polarity, is also a modulator of Wnt-beta-catenin signalling, indicating a link between two important developmental pathways.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

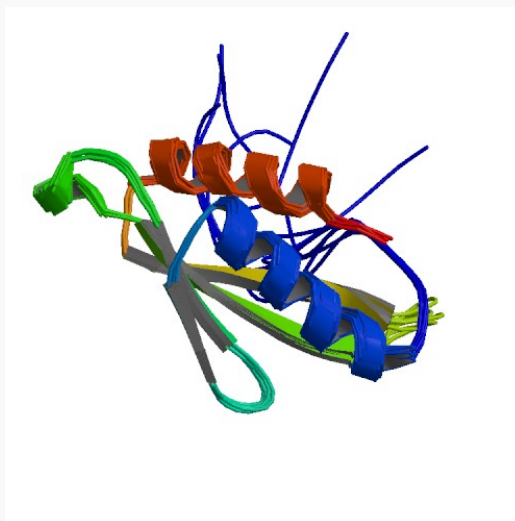
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Gene Name	MARK3 MAP/microtubule affinity-regulating kinase 3 [Homo sapiens]
Synonyms	MARK3; MAP/microtubule affinity-regulating kinase 3; KP78; CTAK1; PAR1A; EC 2.7.11.1; C-TAK1; cTAK1; Cdc25C-associated protein kinase 1; Protein kinase STK10; Ser/Thr protein kinase PAR-1; Serine/threonine-protein kinase p78
Gene ID	4140
mRNA Refseq	NM_001128918
Protein Refseq	NP_001122390
MIM	602678
UniProt ID	P27448
Chromosome Location	14q32.3
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

PDB rendering based
on 1ul7.



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