

Recombinant Human MAP/Microtubule Affinity-Regulating Kinase 4, GST-tagged

Cat. No. MARK4-1058H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MARK4 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	MARK4 or microtubule affinity-regulating kinase 4 is a member of the Par-1 family of serine/threonine protein kinases. MARK4 is predominantly expressed in the brain and readily phosphorylates Tau, MAP2 and MAP4. MARK4 co-localizes with the centrosome and microtubules in cultured cells. Overexpression of MARK4 causes thinning out of the microtubule network concomitant with the reorganization of microtubules into bundles. MARK4 provides a growth advantage to cells and the up-regulation of this kinase during focal ischaemia may represent an interesting new target for pharmacological intervention. MARK4 is expressed during the cell cycle and is linked to aberrant centrosomes in glioma cells.
Applications	Kinase Assay; Western Blot
Molecular Weight	104 kDa
Expression System	Sf9 insect cells using baculovirus.
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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	glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Specific Activity	1050 nmol/min/mg
Purity	> 90%
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at -70oC. 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.
Pathways	LKB1 signaling events

GENE INFORMATION

Gene Name	MARK4 MAP/microtubule affinity-regulating kinase 4 [Homo sapiens]
Official Symbol	MARK4
Synonyms	MARK4; MAP/microtubule affinity-regulating kinase 4; MARK4L; MARK4S; MARKL1; MARKL1L; FLJ12177; FLJ90097; KIAA1860; MAP/microtubule affinity-regulating kinase 4; MARK4 serine/threonine protein kinase; MAP/microtubule affinity-regulating kinase like 1; EC 2.7.11.1
Gene ID	57787
mRNA Refseq	NM_031417

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Protein Refseq	NP_000446
MIM	606495
UniProt ID	Q96L34
Chromosome Location	19q13.3
Function	ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; tau-protein kinase activity; ubiquitin binding; microtubule binding; gamma-tubulin binding; transferase activity, transferring phosphorus-containing groups

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