

# Recombinant Human MAP/Microtubule Affinity-Regulating Kinase 2, GST-tagged

Cat. No. MARK2-1057H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human MARK2 was expressed by baculovirus in Sf9 insect cells.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	<p>MARK2 or microtubule affinity-regulating kinase 2 is a member of the Par-1 family of serine/threonine protein kinases. MARK2 is an important regulator of cell polarity in epithelial and neuronal cells and controls the stability of microtubules through phosphorylation and inactivation of several microtubule-associating proteins (1). MARK2 is a key target of H. pylori CagA in the disorganization of gastric epithelial architecture underlying mucosal damage, inflammation, and carcinogenesis (2). MARK2 phosphorylates kinesin-like motor protein GAKIN/KIF13B to regulate axon formation. MARK2 function in the establishment of T cell polarity following engagement to an APC.</p>
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	114 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus.
<b>Form</b>	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](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
<b>Specific Activity</b>	795 nmol/min/mg
<b>Purity</b>	> 70%
<b>Concentration</b>	0.1 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	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.
<b>Pathways</b>	LKB1 signaling events; Notch signaling pathway; TNF-alpha/NF-kB Signaling Pathway; Wnt Signaling Pathway NetPath

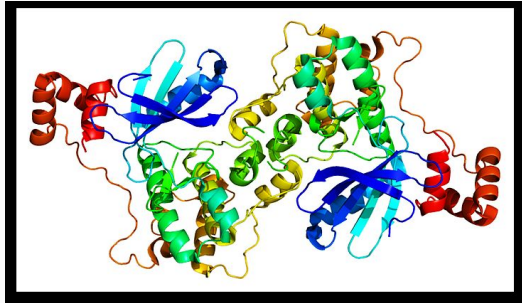
## GENE INFORMATION

<b>Gene Name</b>	MARK2 MAP/microtubule affinity-regulating kinase 2 [ Homo sapiens ]
<b>Official Symbol</b>	MARK2
<b>Synonyms</b>	MARK2; MAP/microtubule affinity-regulating kinase 2; EMK1; EMK-1; PAR-1; Par1b; MGC99619; serine/threonine-protein kinase MARK2; PAR1 homolog; OTTHUMP00000218338; OTTHUMP00000218339; OTTHUMP00000218340; OTTHUMP00000218343; OTTHUMP00000236749; OTTHUMP00000236750; OTTHUMP00000236758; OTTHUMP00000237224; ELKL motif kinase 1; Ser/Thr protein kinase PAR-1B; serine/threonine protein kinase EMK; EC=2.7.11.1; PAR1 homolog

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<b>Gene ID</b>	2011
<b>mRNA Refseq</b>	NM_001039469
<b>Protein Refseq</b>	NP_001034558
<b>MIM</b>	600526
<b>UniProt ID</b>	Q7KZI7
<b>Chromosome Location</b>	11q13.1
<b>Function</b>	ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity
<b>PDB rendering based on 1y8g.</b>	

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