

## Active Recombinant Human MARK1, GST-tagged

Cat. No. MARK1-1427H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human MARK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full length
<b>Description</b>	MARK1 is a member of the MARK family and is a serine/threonine-protein kinase that plays a key role in signal transduction. Due to its protein serine/threonine kinase activity, MARK1 is known to mediate phosphorylation of key proteins involved in signal transduction and cell communication. MARK1 phosphorylates microtubule-associated proteins and trigger microtubule disruption. Gene mutation studies performed in mice revealed that after targeted disruption of the MARK1 gene, the mice lacked the ability to drink, and displayed hind leg motor dysfunction.
<b>Form</b>	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.
<b>Bio-activity</b>	470 nmol/min/mg
<b>Molecular Mass</b>	~125 kDa
<b>Purity</b>	>70%

 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

<b>Applications</b>	Kinase Assay, Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 $\mu\text{g}/\mu\text{l}$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	MARK1 MAP/microtubule affinity-regulating kinase 1 [ Homo sapiens ]
<b>Official Symbol</b>	MARK1
<b>Synonyms</b>	MARK1; MAP/microtubule affinity-regulating kinase 1; serine/threonine-protein kinase MARK1; MARK; PAR1 homolog c; Par1c; Par-1c; KIAA1477; MGC126512; MGC126513;
<b>Gene ID</b>	4139
<b>mRNA Refseq</b>	NM_018650
<b>Protein Refseq</b>	NP_061120
<b>MIM</b>	606511
<b>UniProt ID</b>	Q9P0L2
<b>Chromosome Location</b>	1q41
<b>Function</b>	ATP binding; lipid binding; magnesium ion binding; nucleotide binding; phosphatidic

 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



acid binding; phosphatidylinositol-4,5-bisphosphate binding; phosphatidylserine binding; protein serine/threonine kinase activity; tau-protein kinase activity;

 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