

## Recombinant Human MARK1, GST-tagged, Active

Cat. No. MARK1-348H 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. MW = 125 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<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>Sequence</b>	Full-length.
<b>Applications</b>	Kinase Assay, Western Blot.
<b>Storage And Stability</b>	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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<b>Gene Name</b>	MARK1 MAP/microtubule affinity-regulating kinase 1 [ Homo sapiens ]
<b>Synonyms</b>	MARK1; MAP/microtubule affinity-regulating kinase 1; MARK; KIAA1477; MGC126512; MGC126513; EC 2.7.11.1; OTTHUMP00000035458; Serine/threonine-protein kinase MARK1
<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; magnesium ion binding; nucleotide binding; protein serine/threonine kinase activity; transferase activity

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