

## MARK1 Protein, Human

Cat. No.:	HY-P701806
Synonyms:	MARK1; Serine/threonine-protein kinase MARK1; MAP/microtubule affinity-regulating kinase 1; PAR1 homolog c; Par-1c; Par1c
Species:	Human
Source:	E. coli
Accession:	Q9P0L2 (N45-L795)
Gene ID:	4139
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	MARK1, a serine/threonine-protein kinase, plays a crucial role in cellular processes, particularly in the regulation of cell polarity and microtubule dynamics. It achieves this by phosphorylating microtubule-associated proteins such as DCX, MAP2, MAP4, and MAPT/TAU, causing their detachment from microtubules and subsequent disassembly. In the context of neuronal migration, MARK1's dual activities in regulating cellular polarity and microtubule dynamics, potentially through the phosphorylation and regulation of DCX, contribute to its involvement in this process. Furthermore, MARK1 acts as a positive regulator of the Wnt signaling pathway, likely by mediating the phosphorylation of disheveled proteins (DVL1, DVL2, and/or DVL3), adding another layer to its multifaceted role in cellular regulation.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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