Recombinant Human MARK4

Cat. No. MARK4-29129TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MARK4 with an N terminal proprietary tag, 104kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	752 amino acids
Description	This gene encodes a member of the microtubule affinity-regulating kinase family. These protein kinases phosphorylate microtubule-associated proteins and regulate the transition between stable and dynamic microtubules. The encoded protein is associated with the centrosome throughout mitosis and may be involved in cell cycle control. Expression of this gene is a potential marker for cancer, and the encoded protein may also play a role in Alzheimers disease. Pseudogenes of this gene are located on both the short and long arm of chromosome 3. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Molecular Weight	104.000kDa inclusive of tags
Tissue specificity	Ubiquitous. Isoform 2 is brain-specific.
Biological activity	The Specific activity of MARK4-29129TH was determined to be 1050 nmol/min/mg.
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. MARK subfamily.Contains 1 KA1 (kinase-associated) domain.Contains 1 protein kinase domain.Contains 1 UBA domain.

GENE INFORMATION

Gene Name	MARK4 MAP/microtubule affinity-regulating kinase 4 [Homo sapiens]
Official Symbol	MARK4
Synonyms	MARK4; MAP/microtubule affinity-regulating kinase 4; MAP/microtubule affinity regulating kinase like 1 , MARKL1; FLJ90097; KIAA1860; Nbla00650;
Gene ID	57787
mRNA Refseq	NM_001199867
Protein Refseq	NP_001186796
MIM	606495
Uniprot ID	Q96L34

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Chromosome Location	19q13.2
Pathway	LKB1 signaling events, organism-specific biosystem;
Function	ATP binding; ATP binding; gamma-tubulin binding; microtubule binding; nucleotide binding;

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