MARK4 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	MARK4, Recombinant Protein
Full Product Name	Recombinant Human MARK4
Product Gene Name	MARK4 recombinant protein
Product Synonym Names	KIAA1860; MARK4; MARKL1; Nbla00650
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose and 0.06% proclin, pH7.4
Purity/Purification	Greater than 75% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	82,520 Da
Sequence Positions	515-752
Chromosome Location	Chromosome: 19; NC_000019.9 (45754516..45808541). Location: 19q13.3
OMIM	606495
3D Structure	ModBase 3D Structure for Q96L34
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 500ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for MARK4 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for MARK4 recombinant protein	MBS7614798 is a recombinant protein targeting MARK4. Also known as Recombinant Human MARK4. Host: E Coli.
Other Notes	Small volumes of MARK4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MARK4. It may not necessarily be applicable to this product.

NCBI GI #	315467849
NCBI GeneID	57787
NCBI Accession #	NP_001186796.1
UniProt Primary Accession #	Q96L34
UniProt Secondary Accession #	Q8NG37; Q96JG7; Q96SQ2; Q9BYD8
UniProt Related Accession #	Q96L34

GenBank Nucleotide #	NM_001199867.1
NCBI Official Full Name	MAP/microtubule affinity-regulating kinase 4 isoform 1
NCBI Official Synonym Full Names	MAP/microtubule affinity-regulating kinase 4
NCBI Official Symbol	MARK4
NCBI Official Synonym Symbols	MARK4L; MARK4S; MARKL1; MARKL1L
UniProt Protein Name	MAP/microtubule affinity-regulating kinase 4
UniProt Synonym Protein Names	MAP/microtubule affinity-regulating kinase-like 1
Protein Family	MAP/microtubule affinity-regulating kinase
UniProt Gene Name	MARK4
UniProt Synonym Gene Names	KIAA1860; MARKL1
UniProt Entry Name	MARK4_HUMAN
NCBI Protein Information	MAP/microtubule affinity-regulating kinase 4; MARK4 serine/threonine protein kinase; MAP/microtubule affinity-regulating kinase like 1
NCBI Summary for MARK4	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 Alzheimer's 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. [provided by RefSeq, Dec 2010]
UniProt Comments for MARK4	MARK4: a member of the CAMKL family of protein kinases. Normally expressed in neural progenitors and is re-expressed in gliomas. Protein type: Kinase, protein; EC 2.7.11.1; Protein kinase, CAMK; Protein kinase, Ser/Thr (non-receptor); CAMK group; CAMKL family; MARK subfamily Chromosomal Location of Human Ortholog: 19q13.3 Cellular Component: microtubule cytoskeleton; centrosome; neuron projection; microtubule organizing center; cytosol Molecular Function: protein serine/threonine kinase activity; protein binding; gamma-tubulin binding; ubiquitin binding; microtubule binding; tau-protein kinase activity; ATP binding Biological Process: nervous system development; positive regulation of programmed cell death; organelle organization and biogenesis; microtubule cytoskeleton organization and biogenesis; protein amino acid phosphorylation; microtubule bundle formation
Research Articles on MARK4	**1.** MARK4 is a critical positive regulator of early steps in ciliogenesis.
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