

MARK4 recombinant protein

MARK4, Active

CATALOG # AAA73681	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

MARK4; Active; MARKL1; KIAA1860; MARK4 recombinant protein

PRODUCT SPECIFICATIONS

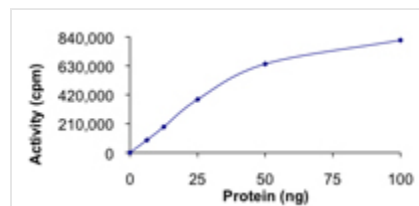
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for MARK4 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for MARK4 recombinant protein	Recombinant full-length human MARK4 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The MARK4 gene accession number is NM_031417. MARK4 or microtubule affinity-regulating kinase 4 is a member of the Par-1 family of serine/threonine protein kinases. MARK4 is predominantly expressed in the brain and readily phosphorylates Tau, MAP2 and MAP4. MARK4 co-localizes with the centrosome and microtubules in cultured cells. Overexpression of MARK4 causes thinning out of the microtubule network concomitant with the reorganization of microtubules into bundles (1). MARK4 provides a growth advantage to cells and the up-regulation of this kinase during focal ischaemia may represent an interesting new target for pharmacological intervention. MARK4 is expressed during the cell cycle and is linked to aberrant centrosomes in glioma cells (2).
Product Categories/Family for MARK4 recombinant protein	Protein Kinases; Invasion/Metastasis; Neurobiology; Ser/Thr Kinases

References

1. Trinczek, B. et al: MARK4 is a novel microtubule-associated proteins/microtubule affinity-regulating kinase that binds to the cellular microtubule network and to centrosomes. J Biol Chem. 2004 Feb 13;279(7):5915-23.
2. Magnani, I. et.al: Multiple localization of endogenous MARK4L protein in human glioma. Cell Oncol, 2009. PMID 19759416.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_031417](#)

Molecular Weight

~104kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mark4-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73681>