

Datasheet for ABIN7554489

MARK1 Protein (AA 1-795) (His tag)



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Overview

Quantity:	1 mg
Target:	MARK1
Protein Characteristics:	AA 1-795
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MARK1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat MARK1 Protein expressed in mammalian cells.
Sequence:	<p>MSARTPLPTV NERDTENHTS VDGYTEPHIQ PTKSSSRQNI PRCRNSITSA TDEQPHIGNY</p> <p>RLQKTIGKGN FAKVKLARHV LTGREVAVKI IDKTQLNPTS LQKLFREVRI MKILNHPNIV</p> <p>KLFEVIETEK TLYLVMMEYAS GGEVFDYLV A HGRMKEKEAR AKFRQIVSAV QYCHQKYIVH</p> <p>RDLKAENLLL DGD MNIKIAD FGFSNEFTVG NKLDTCGSP PYAAPELFQG KKYDGPEVDV</p> <p>WSLGVILYTL VSGSLPFDGQ NLKELRERVL RGKYRIPFYM STDCENLLKK LLVLNPIKRG</p> <p>SLEQIMKDRW MNVGHEEEEL KPYTEPDPDF NDTKRIDIMV TMGFARDEIN DALINQKYDE</p> <p>VMATYILLGR KPPEFEGGES LSSGNLCQRS RPSSDLNNST LQSPAHLKVQ RSISANQKQR</p> <p>RFSDHAGPSI PPAVSYTKRP QANSVESEKQ EEWKDVARK LGSTTVGSKS EMTASPLVGP</p> <p>ERKKSSTIPS NNVYSGGSMA RRNTYVCERT TDRYVALQNG KDSSLTEMSV SSISSAGSSV</p> <p>ASAVPSARPR HQKSMSTSGH PIKVTLPSTIK DGSEAYRPGT TQRVPAASPS AHSISTATPD</p> <p>RTRFPRGSSS RSTFHGEQLR ERRSVAYNGP PASPSHETGA FAHARRGTST GIISKITSKF</p>

VRRDPSEGEA SGRTDTSRST SGEPKERDKE EGKDSKPRSL RFTWSMKTTT SMDPNDMMRE
IRKVLNANNC DYEQKERFLL FCVHGDAQD SLVQWEMEVC KLPRLSLNGV RFKRISGTSI
AFKNIASKIA NELKL **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

MARK1

Alternative Name:

MARK1 ([MARK1 Products](#))

Background:

Serine/threonine-protein kinase MARK1 (EC 2.7.11.1) (EC 2.7.11.26) (MAP/microtubule affinity-regulating kinase 1) (PAR1 homolog c) (Par-1c) (Par1c),FUNCTION: Serine/threonine-protein kinase (PubMed:23666762). Involved in cell polarity and microtubule dynamics regulation. Phosphorylates DCX, MAP2 and MAP4. Phosphorylates the microtubule-associated protein MAPT/TAU (PubMed:23666762). Involved in cell polarity by phosphorylating the microtubule-associated proteins MAP2, MAP4 and MAPT/TAU at KXGS motifs, causing detachment from microtubules, and their disassembly. Involved in the regulation of neuronal migration through its dual activities in regulating cellular polarity and microtubule dynamics, possibly by

Target Details

phosphorylating and regulating DCX. Also acts as a positive regulator of the Wnt signaling pathway, probably by mediating phosphorylation of dishevelled proteins (DVL1, DVL2 and/or DVL3). {ECO:0000269|PubMed:11433294, ECO:0000269|PubMed:17573348, ECO:0000269|PubMed:23666762}.

Molecular Weight: 89.0 kDa

UniProt: [Q9P0L2](#)

Pathways: [SARS-CoV-2 Protein Interactome](#), [The Global Phosphorylation Landscape of SARS-CoV-2 Infection](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months