

Datasheet for ABIN7554479

MARK3 Protein (AA 1-753) (His tag)



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Overview

Quantity:	1 mg
Target:	MARK3
Protein Characteristics:	AA 1-753
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MARK3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat MARK3 Protein expressed in mammalian cells.
Sequence:	<p>MSTRTP LPTV NERDTENHTS HGDGRQEVTS RTSRSGARCR NSIASCADEQ PHIGNYRLLK</p> <p>TIGKGNFAKV KLARHILTGR EVAIKIIDKT QLNPTSLQKL FREVRIMKIL NHPNIVKLFE VIETEKTLYL</p> <p>IMEYASGGEV FDYLVAGHRM KEKEARSKFR QIVSAVQYCH QKRIVHRDLK AENLLLDADM</p> <p>NIKIADFGFS NEFTVGGKLD TFCGSPPYAA PELFQGKKYD GPEVDVWSLG VILYTLVSGS</p> <p>LPFDGQNLKE LRERVLRGKY RIPFYMSTDC ENLLKRFLVL NPIKRG TLEQ IMKDRWINAG</p> <p>HEEDELKPFV EPELDSQDK RIDIMVGMGY SQEEIQESLS KMKYDEITAT YLLLGRKSSE</p> <p>LDASDSSSSS NLSLAKVRPS SDLNNSTGQS PHHKVQRSVS SSQKQRRYSV HAGPAIPSVV</p> <p>AYPKRSQTST ADSDLKEDGI SSRKSSGSAV GGKGIAPASP MLGNASNPKN ADIPERKKSS</p> <p>TVPSSNTASG GMTRRNTYVC SERTTADRHS VIQNGKENST IPDQRTPVAS THSISSAATP</p> <p>DRIRFPRGTA SRSTFHGQPR ERRATYNGP PASPSLSHEA TPLSQTRSRG STNLF SKLTS</p> <p>KLTRRNMSFR FIKRLPTEYE RNGRYEGSSR NVSAEQKDEN KEAKPRSLRF TWSMKTTSSM</p>

Product Details

DPGDMREIR KVLDAANNCDY EQRERFLLFC VHGDGHAENL VQWEMEVCKL PRLSLNGVRF
KRISGTSIAF KNIASKIANE LKL **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:

MARK3

Alternative Name:

MARK3 ([MARK3 Products](#))

Background:

MAP/microtubule affinity-regulating kinase 3 (EC 2.7.11.1) (C-TAK1) (cTAK1) (Cdc25C-associated protein kinase 1) (ELKL motif kinase 2) (EMK-2) (Protein kinase STK10) (Ser/Thr protein kinase PAR-1) (Par-1a) (Serine/threonine-protein kinase p78),FUNCTION: Serine/threonine-protein kinase (PubMed:16822840, PubMed:16980613, PubMed:23666762). Involved in the specific phosphorylation of microtubule-associated proteins for MAP2 and MAP4. Phosphorylates the microtubule-associated protein MAPT/TAU (PubMed:23666762). Phosphorylates CDC25C on 'Ser-216' (PubMed:12941695). Regulates localization and activity of some histone deacetylases by mediating phosphorylation of HDAC7, promoting subsequent interaction between HDAC7 and 14-3-3 and export from the nucleus (PubMed:16980613).

Target Details

Regulates localization and activity of MITF by mediating its phosphorylation, promoting subsequent interaction between MITF and 14-3-3 and retention in the cytosol (PubMed:16822840). Negatively regulates the Hippo signaling pathway and antagonizes the phosphorylation of LATS1. Cooperates with DLG5 to inhibit the kinase activity of STK3/MST2 toward LATS1 (PubMed:28087714). Phosphorylates PKP2 and KSR1 (PubMed:12941695). {ECO:0000269|PubMed:12941695, ECO:0000269|PubMed:16822840, ECO:0000269|PubMed:16980613, ECO:0000269|PubMed:23666762, ECO:0000269|PubMed:28087714}.

Molecular Weight: 84.4 kDa

UniProt: [P27448](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

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