Datasheet for ABIN7554059

MASTL Protein (AA 1-879) (His tag)

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Overview

Quantity:	1 mg
Target:	MASTL
Protein Characteristics:	AA 1-879
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MASTL protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat MASTL Protein expressed in mammalien cells.
Sequence:	MDPTAGSKKE PGGGAATEEG VNRIAVPKPP SIEEFSIVKP ISRGAFGKVY LGQKGGKLYA VKVVKKADMI NKNMTHQVQA ERDALALSKS PFIVHLYYSL QSANNVYLVM EYLIGGDVKS LLHIYGYFDE EMAVKYISEV ALALDYLHRH GIIHRDLKPD NMLISNEGHI KLTDFGLSKV TLNRDINMMD ILTTPSMAKP RQDYSRTPGQ VLSLISSLGF NTPIAEKNQD PANILSACLS ETSQLSQGLV CPMSVDQKDT TPYSSKLLKS CLETVASNPG MPVKCLTSNL LQSRKRLATS SASSQSHTFI SSVESECHSS PKWEKDCQES DEALGPTMMS WNAVEKLCAK SANAIETKGF NKKDLELALS PIHNSSALPT TGRSCVNLAK KCFSGEVSWE AVELDVNNIN MDTDTSQLGF HQSNQWAVDS GGISEEHLGK RSLKRNFELV DSSPCKKIIQ NKKTCVEYKH NEMTNCYTNQ NTGLTVEVQD LKLSVHKSQQ NDCANKENIV NSFTDKQQTP EKLPIPMIAK NLMCELDEDC EKNSKRDYLS SSFLCSDDDR ASKNISMNSD SSFPGISIME SPLESQPLDS DRSIKESSFE ESNIEDPLIV TPDCQEKTSP KGVENPAVQE SNQKMLGPPL EVLKTLASKR NAVAFRSFNS

Product Details

	HINASNNSEP SRMNMTSLDA MDISCAYSGS YPMAITPTQK RRSCMPHQQT PNQIKSGTPY RTPKSVRRGV APVDDGRILG TPDYLAPELL LGRAHGPAVD WWALGVCLFE FLTGIPPFND ETPQQVFQNI LKRDIPWPEG EEKLSDNAQS AVEILLTIDD TKRAGMKELK RHPLFSDVDW ENLQHQTMPF IPQPDDETDT SYFEARNTAQ HLTVSGFSL **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 mammalien 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:	MASTL
Alternative Name:	MASTL (MASTL Products)
Background:	Serine/threonine-protein kinase greatwall (GW) (GWL) (hGWL) (EC 2.7.11.1) (Microtubule-associated serine/threonine-protein kinase-like) (MAST-L),FUNCTION: Serine/threonine kinase that plays a key role in M phase by acting as a regulator of mitosis entry and maintenance. Acts by promoting the inactivation of protein phosphatase 2A (PP2A) during M phase: does not directly inhibit PP2A but acts by mediating phosphorylation and subsequent activation of ARPP19 and ENSA at 'Ser-62' and 'Ser-67', respectively. ARPP19 and ENSA are phosphatase

Target Details

	inhibitors that specifically inhibit the PPP2R2D (PR55-delta) subunit of PP2A. Inactivation of PP2A during M phase is essential to keep cyclin-B1-CDK1 activity high. Following DNA damage, it is also involved in checkpoint recovery by being inhibited. Phosphorylates histone protein in vitro, however such activity is unsure in vivo. May be involved in megakaryocyte differentiation. {ECO:0000269|PubMed:12890928, ECO:0000269|PubMed:19680222, ECO:0000269|PubMed:19793917, ECO:0000269|PubMed:20538976, ECO:0000269|PubMed:20818157}.
Molecular Weight:	97.3 kDa
UniProt:	Q96GX5

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

