

Datasheet for ABIN7565280

BUB1B Protein (AA 1-1052) (His tag)



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Overview

Quantity:	1 mg
Target:	BUB1B
Protein Characteristics:	AA 1-1052
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BUB1B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Bub1b Protein expressed in mammalian cells.
Sequence:	<p>MAEASEAMCL EGAEWELSKE NIQPLRHGRV MSTLQGALAK QESAGHTALQ QQKRAFESI RFYSGDDPLD VWDYINWTE QNYPQGGKES NMSALVERAI EALQGETRYN NDPRFLSLWI KLGHLCDNEPL DMYSYLQSQG IGVSLAQFYI SWAEYEARE NFKKADIIFQ EGIERKAEPL DRLQSQHRQF QSRVSRQAFI ALGNEEEEL EPSEPQRSSL AELKSRGKKM ARAPISRVGG ALKAPGQSRG FLNAVPPQVH GNRRTVFDE NADTASRTEL SKPVAQPWMA PPVPRAKENE LQGPWSTDR PAGRRPHDNP ASVTSIPSVL PSFTPYVEES AQQTVMTPTCK IEPHINHLVS TRKPGREEGD PLQRVQSHQQ GCEEKKEKMM YCKEKIYAGV GEFSFEEIRA EVFRKKLKER REALLTSK KREEMQKQIE EMERRLKAMQ AVQEGAGGQ QEEKMPTEDP ARLQIASGPQ EMSGVPLSCS ICPLSSNPRI ISPAENILQE QPDSKGSSMP FSIFDESLSD KDKSPATGG PQVLNAQRRP LSVLKTTEVG TTNEDEVSPDI CDELTELEPL SEDAIITGFR NVTLCNPED TCDFARAARL ASTPFHEILS SKGIAADPEG LLQEEDLDGK AAEAHHTVHH QALIKKLSP</p>

IIEESREATH SSGFSRSSSS APSTSSIKGF QLLEKLELTN DGAEDAIQSP WCSQYRLQLL
KSLLELSAFA EFSVEDRPMP VLEIGKEIEL GPEDYVIKQE HLTCDYRLF WVAPRSSAEL
TMIKASSQPI PWDFYINLKL KERLNEDYDQ LSCCQYQDG HVVWYQYINC STLQNLLQHS
EFVTHEIIVL IYNLLTIVE KLRHAEIVHG DLSPRSLILR NRIHDPYDYV NKDDHAVRIM
DFSYSVDLRV QLDAFAYSGF RTAQILEGQK ILANCSSPYH VDLLGIADLA HLLLFKEHLH
VFWDGLLWKL SQSTSELKDS ELWNKFFVRI LNASDKSTVS VLGELAAEMG GAFDATFHS
LNRALWKL GK TISPEALLTQ QDKQPGGSQS PA

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:

BUB1B

Alternative Name:

Bub1b ([BUB1B Products](#))

Background:

Mitotic checkpoint serine/threonine-protein kinase BUB1 beta (EC 2.7.11.1) (MAD3/BUB1-related protein kinase) (BubR1) (Mitotic checkpoint kinase MAD3L),FUNCTION: Essential component of the mitotic checkpoint. Required for normal mitosis progression and tumor

Target Details

suppression. The mitotic checkpoint delays anaphase until all chromosomes are properly attached to the mitotic spindle. One of its checkpoint functions is to inhibit the activity of the anaphase-promoting complex/cyclosome (APC/C) by blocking the binding of CDC20 to APC/C, independently of its kinase activity. The other is to monitor kinetochore activities that depend on the kinetochore motor CENPE. Required for kinetochore localization of CENPE. Negatively regulates PLK1 activity in interphase cells and suppresses centrosome amplification. Also implicated in triggering apoptosis in polyploid cells that exit aberrantly from mitotic arrest. Essential for tumor suppression. May play a role in regulating aging and fertility (By similarity). {ECO:0000250, ECO:0000269|PubMed:14744753, ECO:0000269|PubMed:15208629}.

Molecular Weight: 118.4 kDa

UniProt: [Q9Z1S0](#)

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