

Recombinant Human BUB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BUB1-2408H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BUB1 MS Standard C13 and N15-labeled recombinant protein (NP_004327) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a serine/threonine-protein kinase that play a central role in mitosis. The encoded protein functions in part by phosphorylating members of the mitotic checkpoint complex and activating the spindle checkpoint. This protein also plays a role in inhibiting the activation of the anaphase promoting complex/cyclosome. This protein may also function in the DNA damage response. Mutations in this gene have been associated with aneuploidy and several forms of cancer. Alternate splicing results in multiple transcript variants.
Molecular Mass	122.4 kDa
AA Sequence	MDTPENVLQMLEAHMQSYKGNDPLGEWERYIQWVEENFPENKEYLITLLEHLMKEF LDKKKYHNDPRFISYCLKFAEYNSDLHQFFEFLYNHGIGTLSSPLYIAWAGHLEAQGE LQHASAVLQRGIQNQAEPREFLQQQYRLFQTRLTETHLPAQARTSEPLHNVQVLNQ MITSKSNPGNNMACISKNQGSSELGVISSACDKESNMERRVITISKSEYSVHSSLASK VDVEQVVMYCKEKLIRGESEFSFEELRAQKYNQRRKHEQWVNEDRHYMKRKEANA FEEQLLKQKMDLHKKLHQVVETSHEDLPASQERSEVNPARGMPSVGSQQELRAP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

CLPVTYQQTPVNMEKNPREAPPVVPPLANAISAALVSPATSQSIAPPVPLKAQTVTD
 SMFAVASKDAGCVNKSTHEFKPQSGAEIKEGCETHKVANTSSFHTTPNTSLGMVQA
 TPSKVQPSPTVHTKEALGFIMNMFQAPTLPDISDDKDEWQSLDQNEFAEQFQKN
 VRSSGAWGVNKISSLSSAFHVFEDGNKENYGLPQPKNKPTGARTFGERSVSRLPS
 KPKEEVPHAAEFLDDSTVWGIRCNKTLAPSPKSPGDFTSAAQLASTPFHKLPVESVH
 ILEDKENVVAKQCTQATLDSCEENMVVPSRDGKFSPIQEKSPKQALSSHMYASLLR
 LSQPAAGGVLTC EAELGVEACRLTDTDA AIAEDPPDAIAGLQAEWMQMSSLGTVDA
 PNFIVGNPWDDKLIFKLLSGLSKPVSSYPNTFEWQCKLPAIKPKTEFQLGSKLVYVHH
 LLGEGAFAQVYEATQGD LND AKNKQKFVLKVQKPANPWEFYIGTQLMERLKPSMQ
 HMFMKFYSAHLFQNGSVLVGELYSYGTLLNAINLYKNTPEKVMPQGLVISFAMRMLY
 MIEQVHDCEIIHGD IKPDNFILGN GFLEQDDEDDL SAGLALIDLGQSIDMKLFPKG TIFT
 AKCETSGFQCVEMLSNKPWNYQIDYFGVAATVYCMLFGTYMKVKNEGGECKPEGL
 FRRLPHLDMWNEFFHVMLNIPDCHHLPSLDLLRQKLKKVFQQHYTNKIRALRNRLIVL
 LLECKRSRKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	BUB1 BUB1 mitotic checkpoint serine/threonine kinase [Homo sapiens (human)]
Official Symbol	BUB1

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Synonyms	BUB1; budding uninhibited; BUB1L, budding uninhibited by benzimidazoles 1 (yeast homolog); mitotic checkpoint serine/threonine-protein kinase BUB1; BUB1A; hBUB1; mitotic spindle checkpoint kinase; putative serine/threonine-protein kinase; BUB1 budding uninhibited by benzimidazoles 1 homolog; BUB1L;
Gene ID	699
mRNA Refseq	NM_004336
Protein Refseq	NP_004327
MIM	602452
UniProt ID	O43683
SDS-PAGE	