

## Active Recombinant Human BUB1B, GST-tagged

**Cat. No.** BUB1B-1371H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Recombinant human BUB1B (613-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 613 aa-end                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>BUB1B or budding uninhibited by benzimidazoles 1 homolog beta is involved in spindle checkpoint function and has been localized to the kinetochore. BUB1B plays a role in the inhibition of the anaphase-promoting complex/cyclosome (APC/C), delaying the onset of anaphase and ensuring proper chromosome segregation.</p> <p>BUB1B links the regulation of chromosome-spindle attachment to mitotic checkpoint signaling. BUB1B expression during the spindle checkpoint is dependent on residual BUB1B expression and impaired spindle checkpoint function has been found in many forms of cancer. BUB1B is essential for early embryonic development and normal hematopoiesis.</p> |
| <b>Form</b>             | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Bio-activity</b>     | 1.5 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | ~73 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                     |
| <b>Applications</b>     | Kinase Assay, Western Blot                                                                                                                                                                                                                                               |
| <b>Storage</b>          | Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.                                                                                                         |
| <b>Concentration</b>    | 0.1 µg/µl                                                                                                                                                                                                                                                                |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                          |
| <b>Gene Name</b>        | BUB1B budding uninhibited by benzimidazoles 1 homolog beta (yeast) [ Homo sapiens ]                                                                                                                                                                                      |
| <b>Official Symbol</b>  | BUB1B                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>         | BUB1B; budding uninhibited; budding uninhibited by benzimidazoles 1 (yeast homolog), beta; mitotic checkpoint serine/threonine-protein kinase BUB1 beta; Bub1A; BUBR1; MAD3L; SSK1; mitotic checkpoint kinase MAD3L; MAD3/BUB1-related protein kinase; hBUBR1; BUB1beta; |
| <b>Gene ID</b>          | 701                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_001211                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>   | NP_001202                                                                                                                                                                                                                                                                |
| <b>MIM</b>              | 602860                                                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>       | O60566                                                                                                                                                                                                                                                                   |

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| <b>Chromosome Location</b> | 15q15                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Pathway</b>             | APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; |
| <b>Function</b>            | ATP binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity;                                                                                                                                                                                                                                                                                                                                                   |

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