# Active Recombinant Human CDC25B, GST-tagged

**Cat. No.** CDC25B-1512H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Full-length recombinant human CDC25B was expressed in Sf9 insect cells using an N-terminal GST tag. |
| **Species** | Human |
| **Source** | Sf9 Cells |
| **ProteinLength** | Full length |
| **Description** | CDC25B (also known as cell division cycle 25 homolog B) is a member of the CDC25 family of phosphatases that activate the cyclin dependent kinase CDC2 by removing two phosphate groups. CDC25B is required for cell entry into mitosis. CDC25B shuttles between the nucleus and the cytoplasm due to nuclear localization and nuclear export signals. Cdc25B is the first genetic model for studying the mechanisms regulating prophase arrest in vertebrates. The regulation of CDC25B phosphorylation by p38 is a critical event for initiating the G2/M checkpoint after ultraviolet radiation. |
| **Form** | 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. |
| **Bio-activity** | 21 nmol/min/mg |
| **Molecular Mass** | ~110 kDa |
| **Purity** | >70% |

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| **Applications** | Phosphatase Assay, Western Blot |
| **Storage** | Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles. |
| **Concentration** | 0.1μg/μl |

## GENE INFORMATION

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| **Gene Name** | CDC25B cell division cycle 25 homolog B (S. pombe) [ Homo sapiens ] |
| **Official Symbol** | CDC25B |
| **Synonyms** | CDC25B; cell division cycle 25 homolog B (S. pombe); cell division cycle 25 homolog B (S. cerevisiae) , cell division cycle 25B; M-phase inducer phosphatase 2; cell division cycle 25B; dual specificity phosphatase Cdc25B; |
| **Gene ID** | 994 |
| **mRNA Refseq** | NM_004358 |
| **Protein Refseq** | NP_004349 |
| **MIM** | 116949 |
| **UniProt ID** | P30305 |
| **Chromosome Location** | 20p13 |
| **Pathway** | Androgen Receptor Signaling Pathway, organism-specific biosystem; Aurora A |

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| | signaling, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; |
| **Function** | hydrolase activity; protein kinase binding; protein tyrosine phosphatase activity; |

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