Active Recombinant Human CDC25B, GST-tagged

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

SPECIFICATION

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

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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