

Recombinant Human CDC25A cell lysate

Cat. No. CDC25A-320HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	CDC25A is a member of the CDC25 family of phosphatases. CDC25A is required for progression from G1 to the S phase of the cell cycle. It activates the cyclin-dependent kinase CDC2 by removing two phosphate groups. CDC25A is specifically degraded in response to DNA damage, which prevents cells with chromosomal abnormalities from progressing through cell division. CDC25A is an oncogene, although its exact role in oncogenesis has not been demonstrated. Two transcript variants encoding different isoforms have been found for this gene.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	CDC25A cell division cycle 25 homolog A (S. pombe) [Homo sapiens]
Official Symbol	CDC25A
Synonyms	CDC25A; cell division cycle 25 homolog A (S. pombe); cell division cycle 25 homolog

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	A (<i>S. cerevisiae</i>) , cell division cycle 25A; M-phase inducer phosphatase 1; CDC25A2-CAG isoform; cell division cycle 25A; dual specificity phosphatase CDC25A; CDC25A2;
Gene ID	993
mRNA Refseq	NM_001789
Protein Refseq	NP_001780
MIM	116947
UniProt ID	P30304
Chromosome Location	3p21
Pathway	Activation of ATR in response to replication stress, 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; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem;
Function	hydrolase activity; protein binding; protein kinase binding; protein tyrosine phosphatase activity;