

Recombinant Full Length Human CDC25A Protein, C-Flag-tagged

Cat. No. CDC25A-1987HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CDC25A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	58.9 kDa
AA Sequence	MELGPEPPHRRRLLFACSPPPASQPVVKALFGASAAGGLSPVTNLTVTMDQLQGLG SDYEQPLEVKNNNSN LQRMGSSESTD SGFCLDSPGPLDSKENLENPMRRIHSLPQK LLGCSPALKRSHSDSLDHDIFQLIDPDEN KENAEFEFKKPVVRPVSRGCLHSHGLQE GKDLFTQRQNSAPARMLSSNERDSSEPGNFIFLFTPQSPVTAT LSDEDDGFVDLLD GENLKNEEETPSCMASLWTAPLVMRTTNLDNRCKLFDSPSLCSSSTRSVLKRPER

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Q EESPPGSTKRRKSMGASPKESTNPEKAHETLHQSLSLASSPKGTIENILDNDPR
DLIGDFSKGYLFHTV AGKHQDLKYISPEIMASVLNGKFANLIKEFVIIDCRYPYEYEGG
HIKGAVNLHMEEEVEDFLLKKPIVPT DGKRVIVVFHCEFSSERGPRMCRYVRERDRL
GNEYPKLHYPELYVLKGGYKEFFMKCQSYCEPPSYRPMH HEDFKEDLKKFRTKSR
TWAGEKSKREMYSRLKKL TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Phosphatase
Protein Pathways	Cell cycle, Progesterone-mediated oocyte maturation
Full Length	Full L.

GENE INFORMATION

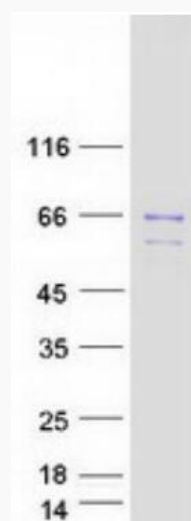
Gene Name	CDC25A cell division cycle 25A [Homo sapiens (human)]
Official Symbol	CDC25A
Synonyms	CDC25A2

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Gene ID	993
mRNA Refseq	NM_001789.3
Protein Refseq	NP_001780.2
MIM	116947
UniProt ID	P30304



Coomassie blue staining of purified CDC25A protein.