



# Recombinant Rat M-phase inducer phosphatase 1 (Cdc25a)

<b>Product Code</b>	CSB-EP004994RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P48965
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MELGPEPPHR RLLFTCSPT PAPQPTGKVQ FGASRAGGLS PVTNLTVTMD QLEGLGSDYE KPMDVRNSSS LQRMGSSEST DSGFCLDSPG PLDSKENLEI SLRRINCLPQ KLLGCSPALK RSHSDSLDHD IFQLIDQDEN KENEAFFFKK PIRPASRGCL NAHVHEESKD PFTHRQNSAP ARMLSSNESD ISESGNFSPL FTPQSPVKAS LSEDDGFID LLDGENLKN D EETPSCMSSL WTAPLVMRRP TNLADRCGLF DSPSPCSSTS SCSTRAVKRA DRSHEESPRG TKRRKSSEAS PVKADVPEPT QLPHQSLSLT SFPKGTIENI FHSDPRDLIG DFSKGYLFHT VSGKHQDLKY ISPEIMASVL NGKFANLIKE FVIIDCRYPY EYEGGHIKGA VNLHMEEVE EFLKKPIVP ADGKRIVVVF HCEFSSERGP RMCRYVRERD RLGNEYPKLH YPELYVLKGG YKEFFLKQCS HCEPPSYRPM HHEDFKEDLK KFRTKSRTWA GEKSKREMY S RLKKL
<b>Source</b>	E.coli
<b>Target Names</b>	Cdc25a
<b>Protein Names</b>	Recommended name: M-phase inducer phosphatase 1 EC= 3.1.3.48 Alternative name(s): Dual specificity phosphatase Cdc25A
<b>Expression Region</b>	1-525
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.