

## Recombinant Mouse Cdc34 Protein, Myc/DDK-tagged

Cat. No. Cdc34-2074M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length cell division cycle 34 (Cdc34), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes 'Lys-48'-linked polyubiquitination. Cooperates with the E2 UBCH5C and the SCF(FBXW11) E3 ligase complex for the polyubiquitination of NFKBIA leading to its subsequent proteasomal degradation. Performs ubiquitin chain elongation building ubiquitin chains from the UBE2D3-primed NFKBIA-linked ubiquitin. UBE2D3 acts as an initiator E2, priming the phosphorylated NFKBIA target at positions 'Lys-21' and/or 'Lys-22' with a monoubiquitin. Cooperates with the SCF(SK2) E3 ligase complex to regulate cell proliferation through ubiquitination and degradation of MYBL2 and KIP1. Involved in ubiquitin conjugation and degradation of CREM isoform ICERIIgamma and ATF15 resulting in abrogation of ICERIIgamma- and ATF5-mediated repression of cAMP-induced transcription during both meiotic and mitotic cell cycles. Involved in the regulation of the cell cycle G2/M phase through its targeting of the WEE1 kinase for ubiquitination and degradation. Also involved in the degradation of beta-catenin.
<b>Molecular Mass</b>	26.6 kDa

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Cdc34 cell division cycle 34 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Cdc34</a>
<b>Synonyms</b>	CDC34; cell division cycle 34 homolog (S. cerevisiae); ubiquitin-conjugating enzyme E2 R1; E2-CDC34; ubiquitin-protein ligase R1; ubiquitin-conjugating enzyme Cdc34; ubiquitin-conjugating enzyme E2-CDC34; ubiquitin-conjugating enzyme E2-32 kDa complementing; UBE2R1; A1327276
<b>Gene ID</b>	<a href="#">216150</a>
<b>mRNA Refseq</b>	<a href="#">NM_177613</a>
<b>Protein Refseq</b>	<a href="#">NP_808281</a>
<b>UniProt ID</b>	<a href="#">Q8CFI2</a>

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