

## Recombinant Human CDC34, His-tagged

Cat. No. CDC34-224H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length human UBE2R1 was expressed in E. coli cells using an N-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>UBE2R1 is a member of the ubiquitin-conjugating enzyme family which catalyzes the covalent attachment of ubiquitin to other proteins. UBE2R1 is a part of the large multiprotein complex which is required for ubiquitin-mediated degradation of cell cycle G1 regulators and for the initiation of DNA replication. CK2 can phosphorylate CDC34 and UBC3B at corresponding serine residue in the C terminus of each protein. Phosphorylated UBC3B and CDC34 binds specifically to the F-box protein beta-TRCP which results in enhanced degradation of beta-catenin, a substrate of BTRC. CK2-dependent phosphorylation of CDC34 and UBC3B functions by regulating BTRC substrate recognition.</p>
<b>Form</b>	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
<b>Molecular Mass</b>	~33 kDa
<b>Purity</b>	>75% by densitometry
<b>Applications</b>	Western Blot

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<b>Storage</b>	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Concentration</b>	0.1 µg/µl
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CDC34 cell division cycle 34 homolog ( <i>S. cerevisiae</i> ) [ <i>Homo sapiens</i> ]
<b>Official Symbol</b>	CDC34
<b>Synonyms</b>	CDC34; cell division cycle 34 homolog ( <i>S. cerevisiae</i> ); cell division cycle 34; ubiquitin-conjugating enzyme E2 R1; E2 CDC34; UBC3; UBE2R1; ubiquitin carrier protein; ubiquitin-protein ligase R1; ubiquitin-conjugating enzyme E2-CDC34; ubiquitin-conjugating enzyme E2-32 KDA complementing; UBCH3; E2-CDC34;
<b>Gene ID</b>	<a href="#">997</a>
<b>mRNA Refseq</b>	<a href="#">NM_004359</a>
<b>Protein Refseq</b>	<a href="#">NP_004350</a>
<b>MIM</b>	<a href="#">116948</a>
<b>UniProt ID</b>	<a href="#">P49427</a>
<b>Chromosome Location</b>	19p13.3

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**Pathway**

Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination & Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem;

**Function**

ATP binding; acid-amino acid ligase activity; ligase activity; nucleotide binding; protein binding; ubiquitin-protein ligase activity; ubiquitin-protein ligase activity;

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