

Recombinant Human CDC34, His-tagged

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

SPECIFICATION

Product Overview	Recombinant full length human UBE2R1 was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
Description	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.
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~33 kDa
Purity	>75% by densitometry
Applications	Western Blot

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	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.
Concentration	0.1 µg/µl
Full Length	Full L.
GENE INFORMATION	
Gene Name	CDC34 cell division cycle 34 homolog (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
Official Symbol	CDC34
Synonyms	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;
Gene ID	997
mRNA Refseq	NM_004359
Protein Refseq	NP_004350
MIM	116948
UniProt ID	P49427
Chromosome Location	19p13.3

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA