

Recombinant Human UBE2R2, His-tagged

Cat. No. UBE2R2-209H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human UBE2R2 (UBC3B) (2-end) was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
ProteinLength	2-end a.a.
Description	UBE2R2 (UBC3B) or ubiquitin-conjugating enzyme E2R 2 encodes a protein similar to the E2 ubiquitin conjugating enzyme UBC3/CDC34. CK2-dependent phosphorylation of this ubiquitin-conjugating enzyme functions by regulating beta-TrCP substrate recognition and induces its interaction with beta-TrCP thereby enhancing beta-catenin degradation. CK2-dependent phosphorylation of CDC34 and UBC3B functions by regulating BTRC substrate recognition. UBE2R2 complements a yeast cdc34 temperature-sensitive mutant. Deletion and site-directed mutagenesis demonstrated that CK2 phosphorylated UBE2R2 in the C-terminal domain at serine-233; mutagenesis of the corresponding serine residue at position 231 of human CDC34/UBC3 showed that this was the major CK2-phosphorylation site in this protein.
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	~32 kDa

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Purity	>90% by densitometry
Applications	Western Blot
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

GENE INFORMATION

Gene Name	UBE2R2 ubiquitin-conjugating enzyme E2R 2 [Homo sapiens]
Official Symbol	UBE2R2
Synonyms	UBE2R2; ubiquitin-conjugating enzyme E2R 2; ubiquitin-conjugating enzyme E2 R2; CDC34B; FLJ20419; MGC10481; UBC3B; ubiquitin-protein ligase R2; ubiquitin carrier protein R2; ubiquitin-conjugating enzyme UBC3B; ubiquitin-conjugating enzyme E2-CDC34B; E2-CDC34B;
Gene ID	54926
mRNA Refseq	NM_017811
Protein Refseq	NP_060281
MIM	612506
UniProt ID	Q712K3

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Chromosome Location	9p11.2
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; ubiquitin-protein ligase activity;

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