

Recombinant Human UBE2B protein

Cat. No. UBE2B-31450TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UBE2B protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	166
Description	Ubiquitin-conjugating enzyme E2 B belongs to the ubiquitin-conjugating enzyme family and is encoded by the UBE2B gene in humans. The ubiquitin-conjugating enzymes, also known as E2 enzymes and more rarely as ubiquitin-carrier enzymes, take part in the second step in the ubiquitination reaction. In this reaction, E1 activates the ubiquitin by covalently attaching the molecule to its active site cysteine residue. The activated ubiquitin is then transferred to an E2 cysteine and then the E2 molecule binds E3 via a structurally conserved binding region. The ubiquitination reaction can modify proteins and regulate protein degradation. The UBE2B interacts with RAD18, UBR2 and WAC. Its protein sequence is 100 % identical to the mouse, rat, and rabbit homologs, which indicates that this enzyme is highly conserved in eukaryotic evolution.
Form	0.2µm Filtered concentrated solution in 50 mM HEPES, pH 7.6 with 125 mM NaCl, 10 % Glycerol, 5 % Trehalose, 1 mM DTT.
Molecular Mass	Approximately 19.0 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids of human UBE2B and 14 a.a. vector sequence including 6 × His tag at N-

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	terminus.
AA Sequence	MHHHHHHAMGQLRSMSTPARRRLMRDFKRLQEDPPVGVSGAPSENNIMQWNAVI FGPEGTPFEDGTFLVIEFSEEYPNKPPTVRFLSKMFHPNVYADGSICLDILQNRWS PTYDVSSILTSIQSLLDEPNPNSPANSSQAAQLYQENKREYEKRVSAIVEQSWNDS
Endotoxin	Less than 1 EU/g of rHuUBE2B, His as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.

GENE INFORMATION

Gene Name	UBE2B
Official Symbol	UBE2B
Synonyms	UBE2B; ubiquitin-conjugating enzyme E2B; ubiquitin conjugating enzyme E2B (RAD6 homolog); ubiquitin-conjugating enzyme E2 B; HHR6B; RAD6B; UBC2; E2 protein; RAD6 homolog B; ubiquitin-protein ligase B; ubiquitin carrier protein B; ubiquitin-conjugating enzyme E2-17 kDa; ubiquitin-conjugating enzyme E2B (RAD6 homolog); HR6B; E2-17kDa;
Gene ID	7320
mRNA Refseq	NM_003337
Protein Refseq	NP_003328

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MIM	179095
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UniProt ID	P63146
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SDS-PAGE of UBE2B-31450TH

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