

## Recombinant Human UBE2B protein

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human UBE2B protein was expressed in Escherichia coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	166
<b>Description</b>	<p>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.</p>
<b>Form</b>	0.2µm Filtered concentrated solution in 50 mM HEPES, pH 7.6 with 125 mM NaCl, 10 % Glycerol, 5 % Trehalose, 1 mM DTT.
<b>Molecular Mass</b>	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-

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

	terminus.
<b>AA Sequence</b>	MHHHHHHAMGQLRSMSTPARRRLMRDFKRLQEDPPVGVSGAPSENNIMQWNAVI FGPEGTPFEDGTFLKLVIEFSEEYPNKPPTVRFLSKMFHPNVYADGSICLDILQNRWS PTYDVSSILTSIQSLLDEPNPNPANSQAAQLYQENKREYEKRVSAIVEQSWNDS
<b>Endotoxin</b>	Less than 1 EU/g of rHuUBE2B, His as determined by LAL method.
<b>Purity</b>	>95% by SDS-PAGE and HPLC analysis.
<b>Storage</b>	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

<b>Gene Name</b>	UBE2B
<b>Official Symbol</b>	UBE2B
<b>Synonyms</b>	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;
<b>Gene ID</b>	7320
<b>mRNA Refseq</b>	NM_003337
<b>Protein Refseq</b>	NP_003328

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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



**MIM** 179095

**UniProt ID** P63146

**SDS-PAGE of**  
**UBE2B-31450TH**

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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