

Recombinant Mouse Ube2b Protein, Myc/DDK-tagged

Cat. No. Ube2b-6780M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ubiquitin-conjugating enzyme E2B (Ube2b), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In association with the E3 enzyme BRE1 (RNF20 and/or RNF40), it plays a role in transcription regulation by catalyzing the monoubiquitination of histone H2B at 'Lys-120' to form H2BK120ub1. H2BK120ub1 gives a specific tag for epigenetic transcriptional activation, elongation by RNA polymerase II, telomeric silencing, and is also a prerequisite for H3K4me and H3K79me formation. In vitro catalyzes 'Lys-11'-, as well as 'Lys-48'- and 'Lys-63'-linked polyubiquitination. Required for postreplication repair of UV-damaged DNA. Associates to the E3 ligase RAD18 to form the UBE2B-RAD18 ubiquitin ligase complex involved in mono-ubiquitination of DNA-associated PCNA on 'Lys-164'. May be involved in neurite outgrowth.
Molecular Mass	17.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Ube2b ubiquitin-conjugating enzyme E2B [Mus musculus (house mouse)]
Official Symbol	Ube2b
Synonyms	UBE2B; ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisiae); ubiquitin-conjugating enzyme E2 B; E214K; RAD6 homolog B; ubiquitin-protein ligase B; ubiquitin carrier protein B; HR6B; Rad6b; mHR6B; E2-14k; 2610301N02Rik
Gene ID	22210
mRNA Refseq	NM_009458
Protein Refseq	NP_033484
UniProt ID	P63147