Recombinant Mouse Ube2k Protein, Myc/DDK-tagged

Cat. No. Ube2k-6791M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ubiquitin-conjugating enzyme E2K (Ube2k), 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 vitro, in the presence or in the absence of BRCA1-BARD1 E3 ubiquitin-protein ligase complex, catalyzes the synthesis of 'Lys-48'-linked polyubiquitin chains. Does not transfer ubiquitin directly to but elongates monoubiquitinated substrate protein. Mediates the selective degradation of short-lived and abnormal proteins, such as the endoplasmic reticulum-associated degradation (ERAD) of misfolded lumenal proteins. Ubiquitinates huntingtin. May mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequence degradation of p53/TP53. Proposed to be involved in ubiquitination and proteolytic processing of NF-kappa-B; in vitro supports ubiquitination of NFKB1. Involved in stabilization of CASP12 during ER stress-mediated amyloid-beta neurotoxicity probably by inhibiting proteasome activity; in vitro ubiquitinates CASP12.
Molecular Mass	22.4 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

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	handling conditions. Avoid repeated freeze-thaw cycles.
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	Ube2k ubiquitin-conjugating enzyme E2K [Mus musculus (house mouse)]
Official Symbol	Ube2k
Synonyms	UBE2K; ubiquitin-conjugating enzyme E2K (UBC1 homolog, yeast); ubiquitin-conjugating enzyme E2 K; HIP-2; E2(25K); ubiquitin-protein ligase; ubiquitin carrier protein; huntingtin interacting protein 2; huntingtin-interacting protein 2; ubiquitin-conjugating enzyme E2-25K; ubiquitin-conjugating enzyme E2(25K); ubiquitin-conjugating enzyme E2-25 kDa; Lig; Hip2; Hypg; E2-25k; AW492011; D5Ertd601e
Gene ID	53323
mRNA Refseq	NM_016786
Protein Refseq	NP_058066
UniProt ID	P61087

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