Recombinant Mouse Ube2s Protein, Myc/DDK-tagged

Cat. No. Ube2s-6798M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ubiquitin-conjugating enzyme E2S (Ube2s), 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. Catalyzes 'Lys-11'-linked polyubiquitination. Acts as an essential factor of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated ubiquitin ligase that controls progression through mitosis. Acts by specifically elongating 'Lys-11'-linked polyubiquitin chains initiated by the E2 enzyme UBE2C/UBCH10 on APC/C substrates, enhancing the degradation of APC/C substrates by the proteasome and promoting mitotic exit. Also acts by elongating ubiquitin chains initiated by the E2 enzyme UBE2D1/UBCH5 in vitro; it is however unclear whether UBE2D1/UBCH5 acts as an E2 enzyme for the APC/C in vivo. Also involved in ubiquitination and subsequent degradation of VHL, resulting in an accumulation of HIF1A. In vitro able to promote polyubiquitination using all 7 ubiquitin Lys residues, except 'Lys-48'-linked polyubiquitination.
Molecular Mass	24.2 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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	Ube2s ubiquitin-conjugating enzyme E2S [Mus musculus (house mouse)]
Official Symbol	Ube2s
Synonyms	UBE2S; ubiquitin-conjugating enzyme E2S; ubiquitin-conjugating enzyme E2 S; E2-EPF5; ubiquitin-protein ligase S; ubiquitin carrier protein S; ubiquitin-conjugating enzyme E2-EPF5; ubiquitin-conjugating enzyme E2-24 kDa; E2-EPF; AA409170; 0910001J09Rik; 6720465F12Rik; MGC101982
Gene ID	77891
mRNA Refseq	NM_133777
Protein Refseq	NP_598538
UniProt ID	Q921J4

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