

Recombinant Mouse Ube2o Protein, Myc/DDK-tagged

Cat. No. Ube2o-6795M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ubiquitin-conjugating enzyme E2O (Ube2o), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	E2/E3 hybrid ubiquitin-protein ligase that displays both E2 and E3 ligase activities and mediates monoubiquitination of target proteins. Negatively regulates TRAF6-mediated NF-kappa-B activation independently of its E2 activity. Acts as a positive regulator of BMP7 signaling by mediating monoubiquitination of SMAD6, thereby regulating adipogenesis. Mediates monoubiquitination at different sites of the nuclear localization signal (NLS) of BAP1, leading to cytoplasmic retention of BAP1. Also able to monoubiquitinate the NLS of other chromatin-associated proteins, such as INO80 and CXXC1, affecting their subcellular location. Acts as a regulator of retrograde transport by assisting the TRIM27:MAGEL2 E3 ubiquitin ligase complex to mediate 'Lys-63'-linked ubiquitination of WASHC1, leading to promote endosomal F-actin assembly.
Molecular Mass	141.3 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	Ube2o ubiquitin-conjugating enzyme E2O [Mus musculus (house mouse)]
Official Symbol	Ube2o
Synonyms	UBE2O; ubiquitin-conjugating enzyme E2O; ubiquitin-conjugating enzyme E2 O; ubiquitin-protein ligase O; ubiquitin carrier protein O; ubiquitinating enzyme E2-230 kDa; ubiquitin-conjugating enzyme E2-230K; ubiquitin-conjugating enzyme E2 of 230 kDa; E2-230K; mKIAA1734; 9630022H21; B230113M03Rik; RP23-193A16.5
Gene ID	217342
mRNA Refseq	NM_173755
Protein Refseq	NP_776116
UniProt ID	Q6ZPJ3

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