

Recombinant Mouse Ube3a Protein, Myc/DDK-tagged

Cat. No. Ube3a-6802M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ubiquitin protein ligase E3A (Ube3a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and transfers it to its substrates. Several substrates have been identified including the ARNTL/BMAL1, ARC, RAD23A and RAD23B, MCM7 (which is involved in DNA replication), annexin A1, the PML tumor suppressor, and the cell cycle regulator CDKN1B. Additionally, may function as a cellular quality control ubiquitin ligase by helping the degradation of the cytoplasmic misfolded proteins. Finally, UBE3A also promotes its own degradation in vivo. Plays an important role in the regulation of the circadian clock: involved in the ubiquitination of the core clock component ARNTL/BMAL1, leading to its proteasomal degradation. Acts as a regulator of synaptic development by mediating ubiquitination and degradation of ARC. Synergizes with WBP2 in enhancing PGR activity.
Molecular Mass	100.3 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	Ube3a ubiquitin protein ligase E3A [Mus musculus (house mouse)]
Official Symbol	Ube3a
Synonyms	UBE3A; ubiquitin protein ligase E3A; ubiquitin-protein ligase E3A; E6-AP ubiquitin protein ligase; ubiquitin conjugating enzyme E3A; oncogenic protein-associated protein E6-AP; Hpve6a; mKIAA4216; 4732496B02; 5830462N02Rik; A130086L21Rik; KIAA4216
Gene ID	22215
mRNA Refseq	NM_011668
Protein Refseq	NP_035798
UniProt ID	O08759

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