

Recombinant Mouse UBE3A Protein (542-870 aa), His-tagged

Cat. No. UBE3A-2022M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse UBE3A Protein (542-870 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Partial.
Species	Mouse
Source	Yeast
ProteinLength	542-870 aa
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 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 domain misfolded proteins. Finally, UBE3A also promotes its own degradation in vivo (By similarity). 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 (PubMed:24728990).
Form	Tris-based buffer, 50% glycerol
Molecular Mass	39.9 kDa

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AA Sequence	NPADLKKQLYVEFEGEQGVDEGGVSKEFFQLVVEEIFNPDIGMFTYDEATKLFWFNP SSFETEGQFTLIGIVLGLAIYNNCILDVHFPMVVYRKLMGKKGTFRDLGDSHPVLYQS LKDLLEYEGSVEDDMMITFQISQTDLFGNPMYDLKENGDKIPITNENRKEFVNLYS DYILNKSVEKQFKAFFRRGFHMTNESPLKYLFRPEEIELLICGSRNLDFQALEETTEY DGGYTRESVVIREFWEIVHSFTDEQKRLFLQFTTGTDRAVGGGLGKLKMIIAKNGPD TERLPTSHTCFNVLLLPEYSSKEKLKERLLKAITYAKGFGML
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	Ube3a ubiquitin protein ligase E3A [Mus musculus]
Official Symbol	UBE3A
Synonyms	UBE3A; mKIAA4216; 4732496B02; 5830462N02Rik; A130086L21Rik; KIAA4216;
Gene ID	22215
mRNA Refseq	NM_001033962

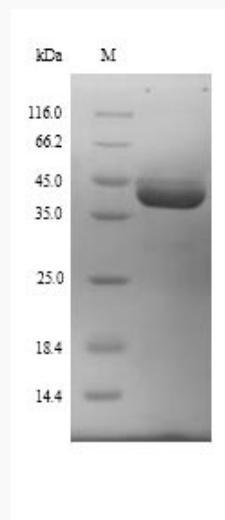
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Protein Refseq NP_001029134

UniProt ID O08759



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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