

Recombinant Human UBE3A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UBE3A-6461H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UBE3A MS Standard C13 and N15-labeled recombinant protein (NP_000453) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes an E3 ubiquitin-protein ligase, part of the ubiquitin protein degradation system. This imprinted gene is maternally expressed in brain and biallelically expressed in other tissues. Maternally inherited deletion of this gene causes Angelman Syndrome, characterized by severe motor and intellectual retardation, ataxia, hypotonia, epilepsy, absence of speech, and characteristic facies. The protein also interacts with the E6 protein of human papillomavirus types 16 and 18, resulting in ubiquitination and proteolysis of tumor protein p53. Alternative splicing of this gene results in three transcript variants encoding three isoforms with different N-termini. Additional transcript variants have been described, but their full length nature has not been determined.
Molecular Mass	100.5 kDa
AA Sequence	MEKLHQCYWKSGEPQSDDIEASRMKRAAAKHLIERYYHQLTEGCGNEACTNEFCA SCPTFLRMDNNAAAIKALELYKINAKLCDPHPSKKGASSAYLENSKGAPNNSCSEIK MNKKGARIDFKDVTYLTTEEKVYEILELCREREDYSPLIRVIGRVFSSAEALVQSFRKV

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KQHTKEELKSLQAKDEDEKDEDEKEKAACSAAMEEDSEASSSRIGDSSQGDNNLQ
 KLGPDVSVSDIDAIRRVYTRLLSNEKIETAFLNALVYLSPNVECDLTYHNVYSRDPNY
 LNLFIIVMENRNLHSPEYLEMALPLFCKAMSKLPLAAQGKLIRLWSKYNADQIRRMME
 TFQQLITYKVISNEFNSRNLVNDDDAIVAASKCLKMVYYANVVGGEVDTNHNEEDDE
 EPIPESELTLQELLGEERRNKKGPRVDPLETELGVKTLDCRKPLIPFEEFINEPLNEV
 LEMDKDYTFKVVETENKFSFMTCPFILNAVTKNLGLYYDNIRMYSEERRITVLYSLVQ
 GQQLNPYLRKLVRRDHIIDALVRLEMIAMENPADLKKQLYVEFEGEQGVDEGGVSK
 EFFQLVVEEIFNPDIGMFTYDESTKLFWFNPSSFETEGQFTLIGIVLGLAIYNNCILDVH
 FPMVVYRKLGMGKGTFRDLGDSHPVLYQSLKDLLEYEGNVEDDMMITFQISQTDLF
 GNPMMYDLKENGDKIPITNENRKEFVNLYSDYILNKSVEKQKFAFRRGFHMVTNESP
 LKYLFRPEEIELLICGSRNLDFQALEETTEYDGGYTRDSVLIREFWEIFHSFTDEQKRL
 FLQFTTGTDRAVVGGLGKLKMIKNGPDTERLPTSHTCFNVLLPEYSSKEKLKERL
 LKAITYAKGFGMLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name UBE3A ubiquitin protein ligase E3A [Homo sapiens (human)]

Official Symbol UBE3A

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Synonyms	UBE3A; ubiquitin protein ligase E3A; EPVE6AP, HPVE6A, human papilloma virus E6 associated protein; ubiquitin-protein ligase E3A; ANCR; Angelman syndrome; AS; E6 AP; FLJ26981; CTCL tumor antigen se37-2; E6AP ubiquitin-protein ligase; renal carcinoma antigen NY-REN-54; human papillomavirus E6-associated protein; oncogenic protein-associated protein E6-AP; human papilloma virus E6-associated protein; E6-AP; HPVE6A; EPVE6AP;
Gene ID	7337
mRNA Refseq	NM_000462
Protein Refseq	NP_000453
MIM	601623
UniProt ID	Q05086
SDS-PAGE	