Recombinant Human UBE3A protein, His-tagged

Cat. No. UBE3A-1463H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UBE3A aa. (Ser158~Leu407) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser158~Leu407
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.
Form	Freeze-dried powder
Molecular Mass	40kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1μg (determined by the LAL method).

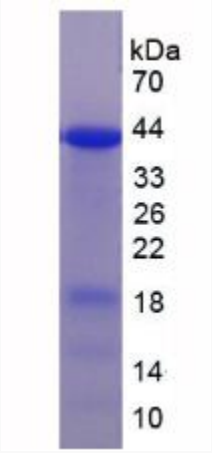
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Purity	>92%
Characteristic	The isoelectric point is 9.1.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; ReporterAssays; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200μg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	UBE3A ubiquitin protein ligase E3A [Homo sapiens (human)]
Official Symbol	UBE3A
Synonyms	AS; ANCR; E6-AP; HPVE6A; EPVE6AP; CTCL tumor antigen se37-2; E6AP ubiquitin-protein ligase; HECT-type ubiquitin transferase E3A; human papilloma virus

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	E6-associated protein; human papillomavirus E6-associated protein; oncogenic protein-associated protein E6-AP; renal carcinoma antigen NY-REN-54; ubiquitin-protein ligase E3A
Gene ID	7337
mRNA Refseq	NM_000462.3
Protein Refseq	NP_000453.2
UniProt ID	Q05086
SDS-PAGE	

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