

Recombinant Human UBA3 Protein, His-tagged

Cat. No. UBA3-522H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UBA3 Protein (Ser241-Lys458) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser241-Lys458
Description	The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E1 ubiquitin-activating enzyme family. The encoded enzyme associates with AppBp1, an amyloid beta precursor protein binding protein, to form a heterodimer, and then the enzyme complex activates NEDD8, a ubiquitin-like protein, which regulates cell division, signaling and embryogenesis. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 28.1 kDa Accurate Molecular Mass: 28 kDa

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Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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 centigrade 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 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	UBA3 ubiquitin-like modifier activating enzyme 3 [Homo sapiens (human)]
Official Symbol	UBA3
Synonyms	UBA3; ubiquitin-like modifier activating enzyme 3; UBE1C, ubiquitin activating enzyme E1C (homologous to yeast UBA3), ubiquitin activating enzyme E1C (UBA3 homolog, yeast); NEDD8-activating enzyme E1 catalytic subunit; hUba3; ubiquitin activating enzyme E1 homolog (yeast); NEDD8-activating enzyme E1C; Nedd8-activating enzyme hUba3; ubiquitin-activating enzyme 3; ubiquitin-like modifier-activating enzyme 3; UBA3, ubiquitin-activating enzyme E1 homolog; ubiquitin-activating enzyme E1C (UBA3 homolog, yeast); ubiquitin-activating enzyme E1C (homologous to yeast UBA3); UBE1C; hUBA3; MGC22384; DKFZp566J164

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Gene ID	9039
mRNA Refseq	NM_003968
Protein Refseq	NP_003959
MIM	603172
UniProt ID	Q8TBC4

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