

Recombinant Human UBA3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UBA3-2793H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UBA3 MS Standard C13 and N15-labeled recombinant protein (NP_937838) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	49.9 kDa
AA Sequence	MADGEEPMAVDGGCGDTGDWEGRWNVKKFLERSGPFTHPDFEPSTESLQFLLD TCKVLVIGAGGLGCELLKNLALSGFRQIHVIDMDTIDVSNLNRQFLFRPKDIGRPKAE VAAEFLNDRVPNCNVVPHFNKIQDFNDTFYRQFHIIVCGLDSIIARRWINGMLISLLNY

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EDGVLDPSSIVPLIDGGTEGFKGNARVILPGMTACIECTLELYPPQVNFPMTIASMP
 RLPEHCIEYVRMLQWPKEQPFGEVPLDGDDPEHIQWIFQKSLERASQYNIRGVTY
 RLTQGVVKRIIPAVASTNAVIAAVCATEVFKIATSAYIPLNNYLVFNDVDGLYTYTFEAE
 RKENCPCASQLPQNIQFSPSAKLQEVLDYLTNSASLQMKSPAITATLEGKNRTLYLQ
 SVTSIEERTRPNLSKTLKELGLVDGQELAVADVTPQTVLFLHFTSTRTRPLEQKLIS
 EEDLAANDILDYKDDDDKV

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 **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

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(homologous to yeast UBA3); UBE1C; hUBA3; MGC22384; DKFZp566J164;

Gene ID [9039](#)

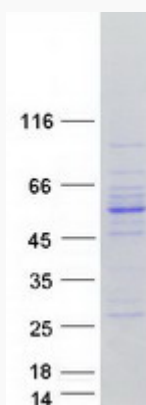
mRNA Refseq [NM_198195](#)

Protein Refseq [NP_937838](#)

MIM [603172](#)

UniProt ID [Q8TBC4](#)

SDS-PAGE



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