

Recombinant Human UBA3, GST-tagged

Cat. No. UBA3-254H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human UBA3 (UBE1C) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	UBA3 (also known as UBE1C) or ubiquitin-like modifier activating enzyme 3 is a member of the E1 ubiquitin-activating enzyme family. UBA3 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. The mechanism of NEDD8 activation by APPBP1-UBA3 shows a high degree of conservation with ubiquitin activation by UBA1. The NEDD8-activating enzyme, or NAE, composed of NAE1 and UBA3 subunits, is an essential component for the treatment of cancer disease.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~73 kDa
Purity	>95% by densitometry
Applications	Western Blot

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Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
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Concentration	0.1 µg/µl
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GENE INFORMATION

Gene Name	UBA3 ubiquitin-like modifier activating enzyme 3 [Homo sapiens]
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Official Symbol	UBA3
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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
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mRNA Refseq	NM_003968
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Protein Refseq	NP_003959
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MIM	603172
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UniProt ID	Q8TBC4
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Chromosome Location	3p24.3-p13
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination & Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; Immune System, organism-specific biosystem;
Function	ATP binding; NEDD8 activating enzyme activity; acid-amino acid ligase activity; ligase activity; nucleotide binding; protein binding; protein heterodimerization activity;

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