

Recombinant Human UBA1, GST-tagged

Cat. No. UBA1-832H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human UBA1 (UBE1) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Protein Length	Full length
Description	UBA1 or ubiquitin-like modifier activating enzyme 1 is an E1 enzyme that initiates the activation and conjugation of ubiquitin-like proteins and catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation. UBE1 is able to transfer ubiquitin to a wide range of E2 substrates. UBA1 protein may participate in DNA topoisomerase-2 activity. UBA1 complements an X-linked mouse temperature-sensitive defect in DNA synthesis, and thus may function in DNA repair.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~145 kDa
Purity	>95%
Applications	Western Blot

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Stability	1yr at -70°C from date of shipment
Storage	Store product at -70oC. 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.
Concentration	0.1ug/ul
GENE INFORMATION	
Gene Name	UBA1 ubiquitin-like modifier activating enzyme 1 [Homo sapiens]
Official Symbol	UBA1
Synonyms	UBA1; ubiquitin-like modifier activating enzyme 1; A1S9T, GXP1, UBE1, ubiquitin activating enzyme E1 , ubiquitin activating enzyme E1 (A1S9T and BN75 temperature sensitivity complementing); ubiquitin-like modifier-activating enzyme 1; POC20; POC20 centriolar protein homolog (Chlamydomonas); ubiquitin activating enzyme E1 homolog (yeast); UBE1X; POC20 centriolar protein homolog; UBA1, ubiquitin-activating enzyme E1 homolog A; A1S9T and BN75 temperature sensitivity complementing; A1S9; A1ST; GXP1; UBE1; A1S9T; AMCX1; SMAX2; UBA1A; MGC4781;
Gene ID	7317
mRNA Refseq	NM_003334
Protein Refseq	NP_003325
MIM	314370

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UniProt ID	P22314
Chromosome Location	Xp11.23
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Immune System, organism-specific biosystem; Parkinsons disease, organism-specific biosystem;
Function	ATP binding; ligase activity; nucleotide binding; protein binding; small protein activating enzyme activity;

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