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
ProteinLength	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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