Recombinant Human UBA2, GST-tagged

Cat. No. UBA2-253H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human UBA2 (SAE2) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	UBA2 (SAE2) or ubiquitin-like modifier activating enzyme 2 forms a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins. The posttranslational modification of proteins by the addition of the small protein SUMO or sumoylation, regulates protein structure and intracellular localization. UBA2 functions in SUMO1 activation in a manner analogous to the single E1 ubiquitin-activating enzymes. The inactivation of UBA2 may be a therapeutic strategy in MYC-driven cancers.
Form	Recombinant protein stored in 50mM Tis-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~115 kDa
Purity	>85% by densitometry
Applications	Western Blot
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 μg/μl

GENE INFORMATION

Gene Name	UBA2 ubiquitin-like modifier activating enzyme 2 [Homo sapiens]
Official Symbol	UBA2
Synonyms	UBA2; ubiquitin-like modifier activating enzyme 2; SAE2, SUMO1 activating enzyme subunit 2; SUMO-activating enzyme subunit 2; ARX; FLJ13058; HRIHFB2115; ubiquitin activating enzyme E1 homolog (yeast); SUMO1 activating enzyme subunit 2; SUMO-1 activating enzyme subunit 2; ubiquitin-like 1-activating enzyme E1B; anthracycline-associated resistance ARX; UBA2, ubiquitin-activating enzyme E1 homolog; SAE2;
Gene ID	10054
mRNA Refseq	NM_005499
Protein Refseq	NP_005490
MIM	613295
UniProt ID	Q9UBT2
Chromosome Location	19q13.11

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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; Immune System, organism-specific biosystem; Ubiquitin mediated proteolysis, organism-specific biosystem;
Function	ATP binding; SUMO activating enzyme activity; enzyme activator activity; ligase activity; metal ion binding; nucleotide binding; protein binding; protein heterodimerization activity; transcription factor binding;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA