

UBLE1A (SAE1) recombinant protein

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CATALOG # AAA72933	HOST Sf9 insect cells	APPLICATIONS Western Blot
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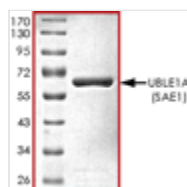
PRODUCT SYNONYMS

UBLE1A (SAE1); UBLE1A (SAE1) recombinant protein; SAE1; SUA1; HSPC140; AOS1; FLJ3091; UBLE1A(SAE1) protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Length	2538
Applicable Applications for UBLE1A (SAE1) recombinant protein	WB (Western Blot)
Type	Recombinant Fusion Protein
Species	Human
Tag Information	GST tag
Expression System	Sf9 insect cells using baculovirus
Source Note	Recombinant full-length human UBLE1A (SAE1) was expressed by baculovirus in Sf9 insect cells
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. 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.

IMAGES



SDS-PAGE

The purity of UBLE1A (SAE1) was determined to be >95% by densitometry. Approx. MW 65kDa

ADDITIONAL INFORMATION

Related Product Information for UBLE1A (SAE1) recombinant protein	Recombinant full-length human UBLE1A (SAE1) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: UBLE1A (also known as SAE1) or SUMO1 activating enzyme subunit 1 is involved in regulating protein structure and intracellular localization. SAE1 and UBA2 form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins (1). The SAE1/SAE2 dimer functions in SUMO1 activation in a manner analogous to the single E1 ubiquitin-activating enzymes. The SAE2 inactivation may be a therapeutic strategy in MYC-driven cancers (2).
Product Categories/Family for UBLE1A (SAE1) recombinant protein	Ubiquitin Proteins; Signaling Proteins - Ubiquitin Proteins
References	1. Okuma, T. et.al: In vitro SUMO-1 modification requires two enzymatic steps, E1 and E2. Biochem. Biophys. Res. Commun. 254: 693-698, 1999. 2. Kessler, J. D. et.al: A SUMOylation-dependent transcriptional subprogram is required for Myc-driven tumorigenesis. Science 335: 348-353, 2012.

NCBI AND UNIPROT INFORMATION

NCBI GI #	225543279
NCBI GeneID	10055
NCBI Accession #	NP_005491.1
NCBI GenBank Nucleotide #	NM_005500
UniProt Accession #	Q9UBE0; O95717; Q9P020; B2RDP5; B3KMQ2; F5GXX7; G3XAK6
Molecular Weight	~65 kDa
NCBI Official Full Name	Homo sapiens SUMO1 activating enzyme subunit 1 (SAE1), transcript variant 1, mRNA
NCBI Official Synonym Full Names	SUMO1 activating enzyme subunit 1
NCBI Official Symbol	SAE1
NCBI Official Synonym Symbols	AOS1; SUA1; UBLE1A; HSPC140
NCBI Protein Information	SUMO-activating enzyme subunit 1; activator of SUMO1; SUMO-1 activating enzyme subunit 1; sentrin/SUMO-activating protein AOS1; SUMO-1 activating enzyme E1 N subunit; ubiquitin-like 1-activating enzyme E1A; ubiquitin-like protein SUMO-1 activating enzyme
UniProt Protein Name	SUMO-activating enzyme subunit 1
UniProt Gene Name	SAE1
UniProt Synonym Gene Names	AOS1; SUA1; UBLE1A
UniProt Entry Name	SAE1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sae1-recombinant-protein-sf9-insect-cells-wb-western-blot/72933>