

SAE1/UBA2 Complex Recombinant Protein | SAE1/UBA2 recombinant protein

SAE1/UBA2 Complex, Active

CATALOG # AAA74080	HOST Sf9 insect cells.	APPLICATIONS Western Blot
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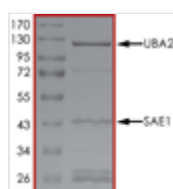
PRODUCT SYNONYMS

SAE1/UBA2 Complex; Active; SAE1: UBLE1A; SUA1; HSPC140; AOS1; FLJ3091 UBA2: SAE2; UBLE1B; SAE2; ARX; HRIHFB2115; SAE1/UBA2 recombinant protein

PRODUCT SPECIFICATIONS

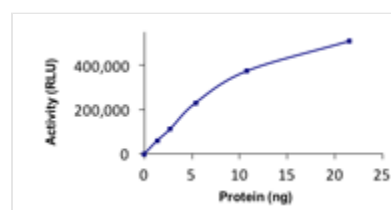
Host	Sf9 insect cells.
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, and 25% glycerol.
Applicable Applications for SAE1/UBA2 recombinant protein	WB (Western Blot)
Tag	His/GST
Species	Human
Dry Ice Note	The product may 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

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for SAE1/UBA2 recombinant protein	Recombinant full-length human SAE1 (UBLE1A) and human UBA2 (SAE2) were co-expressed by baculovirus in Sf9 insect cells. SAE1 used an N-terminal his tag, and the gene accession number is NM_005500. UBA2 used an N-terminal GST tag, and the gene accession number is NM_005499. SAE1 and UBA2 form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins to regulate protein structures and intracellular localization (1). The SAE1/SAE2 dimer functions in SUMO1 activation in a manner analogous to the single E1 ubiquitin-activating enzymes (2). The SAE2 inactivation may be a therapeutic strategy in MYC-driven cancers (3).
Product Categories/Family for SAE1/UBA2 recombinant protein	Ubiquitin Enzymes; Cancer; Cell Cycle; Neurobiology

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. Desterro, J. et. al: Identification of the enzyme required for activation of the small ubiquitin-like protein SUMO-1. J. Biol. Chem. 274: 10618-10624, 1999.
3. 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 GenBank Nucleotide

[NM_005500](#)

Molecular Weight

SAE1 ~39kDa
UBA2 ~115kDa

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/uba2-complex-recombinant-protein-sf9-insect-cells-wb-western-blot/74080>