

SAE1 polyclonal antibody

Catalog # PAB11270 Size 500 ug

Applications

Western Blot

Coomassie-stained SDS-PAGE of GST-SAE1 recombinant protein (Panel A) and western blotting (Panel B) of HeLa WC lysate (lane1) and purified recombinant GST-SAE1 (Lane 2) are presented to show specificity of SAE1 polyclonal antibody (Cat # PAB11270).

The ~60 KDa band present in ~ 35 ug lysate (green, 800 nm channel) is indicated by the arrowhead.

Lane 2 contains 50 ng of purified recombinant GST-SAE1 and lane 3 contains 300 ng of purified GST. Proteins were separated on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1 : 2,000.

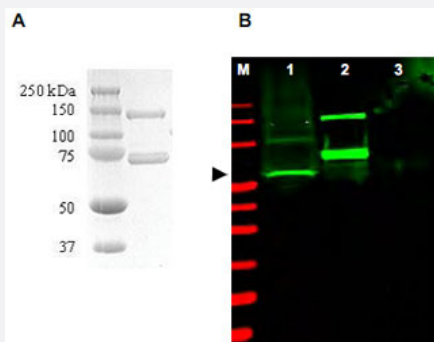
Incubation was overnight at 4°C followed by washes and reaction with a 1 : 10,000 dilution of IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MXHu for 45 min at room temperature.

Molecular weight markers are shown for both the coomassie-stained gel and the western blot (Lane M, red, 700 nm channel).

IRDye™ 800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR.

IRDye is at rademark of LI-COR, Inc.

SDS-PAGE image courtesy of Proteome Resources, Englewood, CO, <http://www.proteomeresources.com>.



Specification

Product Description	Rabbit polyclonal antibody raised against full length recombinant SAE1.
Immunogen	Recombinant GST fusion protein corresponding to full length human SAE1.
Host	Rabbit
Reactivity	Bovine, Chimpanzee, Dog, Human, Mouse, Rat

Specificity	This purified antibody is directed against human SUMO Activating Enzyme E1 protein.
Form	Lyophilized
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	ELISA (1:5000-1:20000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot after reconstitution to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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- Immunofluorescence

- Enzyme-linked Immunoabsorbent Assay

Gene Info — SAE1

Entrez GeneID [10055](#)

Protein Accession# [Q9UBE0](#)

Gene Name	SAE1
Gene Alias	AOS1, FLJ3091, HSPC140, SUA1
Gene Description	SUMO1 activating enzyme subunit 1
Gene Ontology	Hyperlink
Other Designations	SUMO-1 activating enzyme E1 N subunit SUMO-1 activating enzyme subunit 1 activator of SUMO 1 sentrin/SUMO-activating protein AOS1 ubiquitin-like protein SUMO-1 activating enzyme

Publication Reference

- [Structures of the SUMO E1 provide mechanistic insights into SUMO activation and E2 recruitment to E1.](#)

Lois LM, Lima CD.

The EMBO Journal 2005 Feb; 24(3):439.

- [Identification of the enzyme required for activation of the small ubiquitin-like protein SUMO-1.](#)

Desterro JM, Rodriguez MS, Kemp GD, Hay RT.

The Journal of Biological Chemistry 1999 Apr; 274(15):10618.

- [In vitro SUMO-1 modification requires two enzymatic steps, E1 and E2.](#)

Okuma T, Honda R, Ichikawa G, Tsumagari N, Yasuda H.

Biochemical and Biophysical Research Communications 1999 Jan; 254(3):693.

Pathway

- [Ubiquitin mediated proteolysis](#)