

SAE1 Antibody

Catalog # ASC11128

Product Information

Application WB, E
Primary Accession O9UBE0

Other Accession NP_005491, 4885585
Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype IgG
Calculated MW 38450
Concentration (mg/ml) 1 mg/mL
Conjugate Unconjugated

Application Notes SAE1 antibody can be used for detection of SAE1 by Western blot at 1 \(\text{Ig/mL} \).

Additional Information

Gene ID 10055

Other Names SUMO-activating enzyme subunit 1, Ubiquitin-like 1-activating enzyme E1A,

SUMO-activating enzyme subunit 1, N-terminally processed, SAE1, AOS1,

SUA1, UBLE1A

Target/Specificity SAE1;

Reconstitution & Storage SAE1 antibody can be stored at 4°C for three months and -20°C, stable for up

to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high

temperatures.

Precautions SAE1 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name SAE1

Synonyms AOS1, SUA1, UBLE1A

Function The heterodimer acts as an E1 ligase for SUMO1, SUMO2, SUMO3, and

probably SUMO4. It mediates ATP-dependent activation of SUMO proteins followed by formation of a thioester bond between a SUMO protein and a

conserved active site cysteine residue on UBA2/SAE2.

Cellular Location Nucleus.

Tissue Location Expression level increases during S phase and drops in G2 phase (at protein

Background

SAE1 Antibody: Small ubiquitin-like modifiers (SUMOs) are a family of small, related proteins (SUMO-1/2/3/4) that can be enzymatically attached to a target protein by a post-translational modification process termed sumoylation, a major regulator of protein function in cellular processes such as nuclear transport, transcriptional regulation, apoptosis and protein stability. This sumoylation is effected by the heterodimeric enzyme SAE1/SAE2 and the SUMO-1-conjugating enzyme Ubch9. The sumoylation pathway mediated by SAE1/SAE2 is distinct from other ubiquitin-like protein (Ubl) pathways.

References

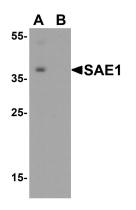
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Images



Western blot analysis of SAE1 in SK-N-SH lysate with SAE1 antibody at 0.5 μ g/mL in (A) the absence and (B) the presence of blocking peptide.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.