

Recombinant Anti-SAE1 Rabbit mAb

Catalog # AP95195

Product Information

Application	WB, FC, IP, IF/IC
Primary Accession	Q9UBE0
Reactivity	Human, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	38450

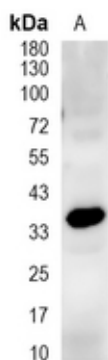
Additional Information

Gene ID	10055
Other Names	AOS1; SUA1; UBLE1A; SUMO-activating enzyme subunit 1; Ubiquitin-like 1-activating enzyme E1A
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human SAE1 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) FC~~1:10~50 IP~~N/A IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

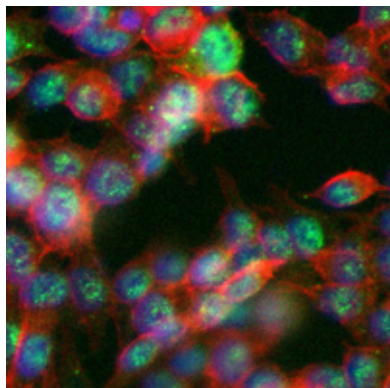
Protein Information

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 level).

Images



Western blot analysis of SAE1 expression in Jurkat (A) whole cell lysates. (Predicted band size: 38 kD; Observed band size: 38 kD)



Immunofluorescent analysis of SAE1 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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