

## ARG66614 anti-SAE1 / AOS1 antibody

Package: 100 µg  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes SAE1 / AOS1   |
| Tested Reactivity   | Hu  |
| Tested Application  | ICC/IF, WB  |
| Host                | Rabbit  |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | SAE1 / AOS1   |
| Species             | Human   |
| Immunogen           | Synthetic peptide within aa. 190-270 of Human SAE1 / AOS1.  |
| Conjugation         | Un-conjugated   |
| Alternate Names     | UBLE1A; SUMO-activating enzyme subunit 1; AOS1; HSPC140; SUA1; Ubiquitin-like 1-activating enzyme E1A |

### Application Instructions

|                   |  |                |
|-------------------|--|----------------|
| Application table | Application  | Dilution       |
|                   | ICC/IF   | 1:200 - 1:1000 |
|                   | WB   | 1:500 - 1:2000 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                |
| Observed Size     | ~ 40 kDa   |                |

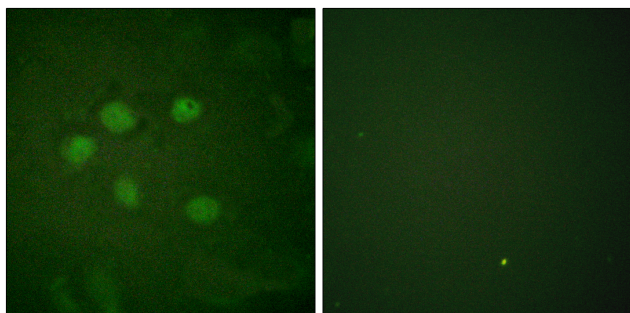
### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purification with immunogen.   |
| Buffer              | PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.   |
| Preservative        | 0.02% Sodium azide  |
| Stabilizer          | 50% Glycerol and 0.5% BSA   |
| Concentration       | 1 mg/ml   |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.  |

## Bioinformation

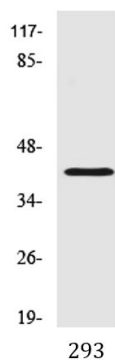
|                       |   |
|-----------------------|---|
| Gene Symbol           | SAE1  |
| Gene Full Name        | SUMO1 activating enzyme subunit 1   |
| Background            | Posttranslational modification of proteins by the addition of the small protein SUMO (see SUMO1; MIM 601912), or sumoylation, regulates protein structure and intracellular localization. SAE1 and UBA2 (MIM 613295) form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins (Okuma et al., 1999 [PubMed 9920803]).[supplied by OMIM, Mar 2010] |
| Function              | The heterodimer acts as a 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. [UniProt]  |
| Calculated Mw         | 38 kDa  |
| Cellular Localization | Nucleus. [UniProt]  |

## Images



ARG66614 anti-SAE1 / AOS1 antibody ICC/IF image

Immunofluorescence: HUVEC cells stained with ARG66614 anti-SAE1 / AOS1 antibody. The picture on the right is blocked with the synthetic peptide.



ARG66614 anti-SAE1 / AOS1 antibody WB image

Western blot: 293 cell nucleus lysate stained with ARG66614 anti-SAE1 / AOS1 antibody.