

Goat Anti-SAE1 / AOS1 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1952a

Specification

Goat Anti-SAE1 / AOS1 Antibody - Product Information

| | |
|-------------------|---|
| Application | WB |
| Primary Accession | Q9UBE0 |
| Other Accession | NP_005491 , 10055 |
| Reactivity | Human |
| Predicted | Dog |
| Host | Goat |
| Clonality | Polyclonal |
| Concentration | 100ug/200ul |
| Isotype | IgG |
| Calculated MW | 38450 |

Goat Anti-SAE1 / AOS1 Antibody - 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

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-SAE1 / AOS1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-SAE1 / AOS1 Antibody - 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).

Goat Anti-SAE1 / AOS1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-SAE1 / AOS1 Antibody - Images

AF1952a staining (1 μ g/ml) of Jurkat lysate (RIPA buffer, 30 μ g total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-SAE1 / AOS1 Antibody - 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]).

Goat Anti-SAE1 / AOS1 Antibody - References

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931. A general approach for investigating enzymatic pathways and substrates for ubiquitin-like modifiers. Li T, et al. Arch Biochem Biophys, 2006 Sep 1. PMID 16620772. SUMO-1 controls the protein stability and the biological function of phosphatidylinositol 3-kinase. Klenk C,

et al. J Biol Chem, 2006 Mar 31. PMID 16421094. Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560. Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514.