

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	

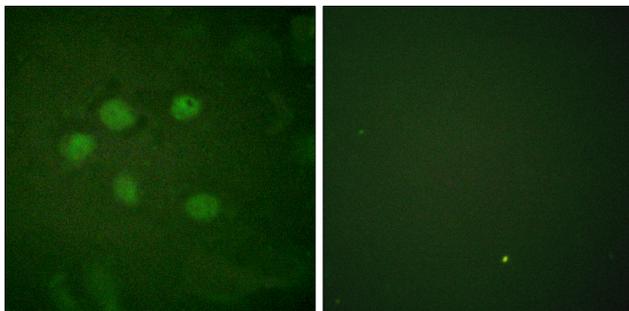
Properties

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.