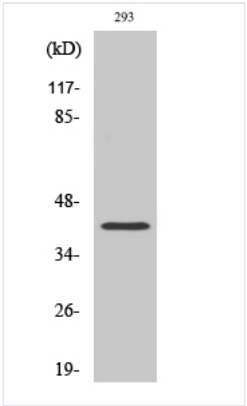
SAE1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SAE1, Polyclonal Antibody
Full Product Name	SAE1 Polyclonal Antibody
Product Gene Name	anti-SAE1 antibody
Product Synonym Names	SAE1; AOS1; SUA1; UBLE1A; SUMO-activating enzyme subunit 1; Ubiquitin-like 1-activating enzyme E1A
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	38,450 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (47634080..47713893). Location: 19q13.32
OMIM	613294
3D Structure	ModBase 3D Structure for Q9UBE0
Applications Tested/Suitable for anti-SAE1 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF)
Related Product Information for anti-SAE1 antibody	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.
Other Notes	Small volumes of anti-SAE1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SAE1 purchase	MBS9245160 is an antibody targeting SAE1. Also known as SAE1 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Wester Blot (WB) of anti-SAE1 antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.
Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SAE1. It may not necessarily be applicable to this product.

NCBI GI #	225543285
NCBI GeneID	10055
NCBI Accession #	NP_001139185.1
UniProt Primary Accession #	Q9UBE0
UniProt Secondary Accession #	O95717; Q9P020; B2RDP5; B3KMQ2; F5GXX7; G3XAK6
UniProt Related Accession #	Q9UBE0
GenBank Nucleotide #	NM_001145713.1
NCBI Official Full Name	SUMO-activating enzyme subunit 1 isoform b
NCBI Official Synonym Full Names	SUMO1 activating enzyme subunit 1
NCBI Official Symbol	SAE1
NCBI Official Synonym Symbols	AOS1; SUA1; UBLE1A; HSPC140
UniProt Protein Name	SUMO-activating enzyme subunit 1
UniProt Synonym Protein Names	Ubiquitin-like 1-activating enzyme E1A
Protein Family	SUMO-activating enzyme
UniProt Gene Name	SAE1
UniProt Synonym Gene Names	AOS1; SUA1; UBLE1A
UniProt Entry Name	SAE1_HUMAN
NCBI Protein Information	SUMO-activating enzyme subunit 1; activator of SUMO1; SUMO-1 activating enzyme subunit 1; sentrin/SUMO-activating protein AOS1; SUMO-1 activating enzyme E1 N subunit; ubiquitin-like 1-activating enzyme E1A; ubiquitin-like protein SUMO-1 activating enzyme
NCBI Summary for SAE1	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]
UniProt Comments for SAE1	UBLE1A: 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. Belongs to the ubiquitin-activating E1 family. Protein type: EC 6.3.2.19; Ubiquitin ligase; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 19q13.32 Cellular Component: nucleoplasm; intracellular membrane-bound organelle; cytosol; nucleus Molecular Function: protein C-terminus binding; ATP-dependent protein binding; SUMO activating enzyme activity; protein binding; protein heterodimerization activity; enzyme activator activity; ubiquitin activating enzyme activity Biological Process: positive regulation of catalytic activity; cellular protein metabolic process; protein sumoylation; regulation of mitotic cell cycle; protein ubiquitination; SMT3-dependent protein catabolic process; post-translational protein modification
Research Articles on SAE1	**1.** Data indicate the role of anti-SUMO activating enzyme SAE1 and SAE2 antibody as marker of dermatomyositis.

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