



## SAE1 blocking peptide (CDBP6042)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	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]
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Used as a blocking peptide in immunoblotting applications.
<b>Format</b>	Liquid
<b>Concentration</b>	200 µg/mL
<b>Size</b>	0.05 mg
<b>Preservative</b>	None
<b>Storage</b>	-20°C

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">SAE1 SUMO1 activating enzyme subunit 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	SAE1
<b>Synonyms</b>	SAE1; SUMO1 activating enzyme subunit 1; AOS1; SUA1; UBLE1A; HSPC140; 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

<b>Entrez Gene ID</b>	<a href="#">10055</a>
<b>mRNA Refseq</b>	<a href="#">NM_001145713</a>
<b>Protein Refseq</b>	<a href="#">NP_001139185</a>
<b>UniProt ID</b>	Q9UBE0
<b>Pathway</b>	Metabolism of proteins; Post-translational protein modification; Processing and activation of SUMO; SUMO is conjugated to E1 (UBA2:SAE1); SUMO is transferred from E1 to E2 (UBE2I); SUMOylation; Ubiquitin mediated proteolysis
<b>Function</b>	ATP-dependent protein binding; contributes_to SUMO activating enzyme activity; enzyme activator activity; protein C-terminus binding; protein binding; protein heterodimerization activity; protein heterodimerization activity; ubiquitin activating enzyme activity