

For Research Use Only

# SAE1 Recombinant antibody, PBS Only

Catalog Number: 84516-7-PBS



## Basic Information

<b>Catalog Number:</b> 84516-7-PBS	<b>GenBank Accession Number:</b> BC000344	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10055	<b>CloneNo.:</b> 241923C6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UBEO	
<b>Isotype:</b> IgG	<b>Full Name:</b> SUMO1 activating enzyme subunit 1	
<b>Immunogen Catalog Number:</b> AG0275	<b>Calculated MW:</b> 38 kDa	
	<b>Observed MW:</b> 38 kDa	

## Applications

**Tested Applications:**  
WB, FC (Intra), Indirect ELISA

**Species Specificity:**  
human

## Background Information

SAE1(SUMO-activating enzyme subunit 1) is also named as AOS1, SUA1, UBLE1A and belongs to the ubiquitin-activating E1 family. SAE1 has a calculated molecular mass of 38 kD. SAE1 and UBA2 form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins(PMID:9920803). Western blot analysis of synchronized HeLa cells detects increased AOS1 expression as cells progressed through S phase, followed by a substantial decrease in G2 phase. Immunofluorescence analysis shows AOS1 and UBA2 distributed throughout nuclei, but they are excluded from nucleoli.(PMID:11481243).

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

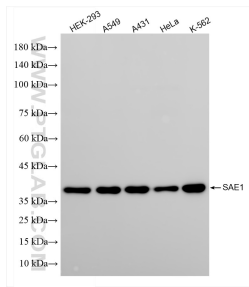
For technical support and original validation data for this product please contact:

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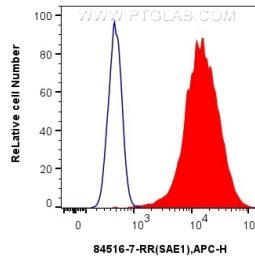
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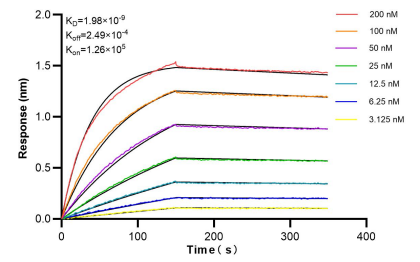
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84516-7-RR (SAE1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84516-7-PBS in a different storage buffer formulation.



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25  $\mu$ g SAE1 Recombinant antibody (84516-7-RR, Clone:241923C6) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25  $\mu$ g Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone:240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 84516-7-PBS in a different storage buffer formulation.



Biacore interferometry (BLI) kinetic assays of 84516-7-RR against Human SAE1 were performed. The affinity constant is 1.98 nM.