

## SAE1 Polyclonal antibody

Catalog Number: 10229-1-AP

5 Publications

## Basic Information

<b>Catalog Number:</b> 10229-1-AP	<b>GenBank Accession Number:</b> BC000344	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 240 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10055	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IHC 1:20-1:200 IF 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> SUMO1 activating enzyme subunit 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 38 kDa	
<b>Immunogen Catalog Number:</b> AG0275	<b>Observed MW:</b> 38 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IHC, WB	<b>WB:</b> A431 cells, A549 cells, COLO 320 cells, HEK-293 cells, HeLa cells
<b>Species Specificity:</b> human, mouse, rat	<b>IHC:</b> human colon cancer tissue, human skin cancer tissue
<b>Cited Species:</b> human, mouse	<b>IF:</b> HeLa cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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. It had an apparent molecular mass of 40 kD by SDS-PAGE. 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Lingjie Yan	36414671	Nat Commun	WB
Dong Chen	22342750	Curr Biol	WB
Yang Liu	35859792	Open Med (Wars)	IHC

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
 Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

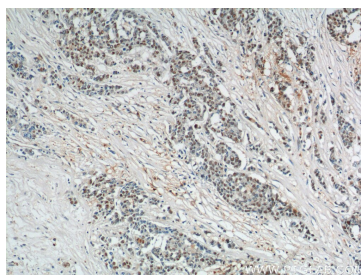
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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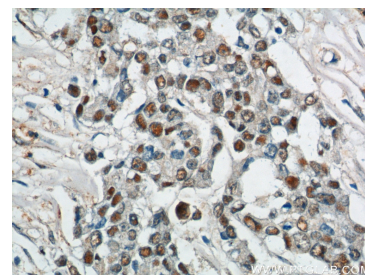
## Selected Validation Data



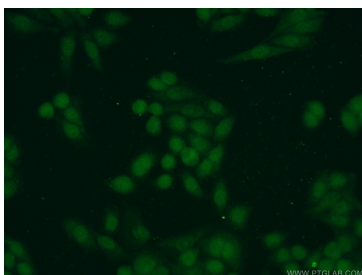
A431 cells were subjected to SDS PAGE followed by western blot with 10229-1-AP (SAE1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10229-1-AP (SAE1 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10229-1-AP (SAE1 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of HeLa cells using 10229-1-AP (SAE1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).