

For Research Use Only

SAE1 Recombinant antibody

Catalog Number: 84516-6-RR



Basic Information

Catalog Number: 84516-6-RR	GenBank Accession Number: BC000344	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 10055	CloneNo.: 241923F12
Source: Rabbit	UNIPROT ID: Q9UBEO	Recommended Dilutions: IF/ICC 1:250-1:1000
Isotype: IgG	Full Name: SUMO1 activating enzyme subunit 1	
Immunogen Catalog Number: AG0275	Calculated MW: 38 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra), ELISA	Positive Controls: IF/ICC : MCF-7 cells, HeLa cells
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 -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

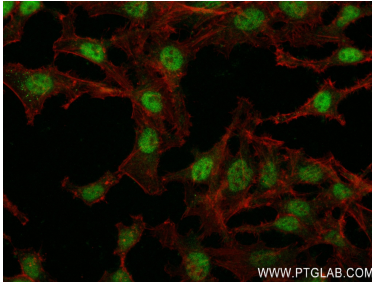
For technical support and original validation data for this product please contact:

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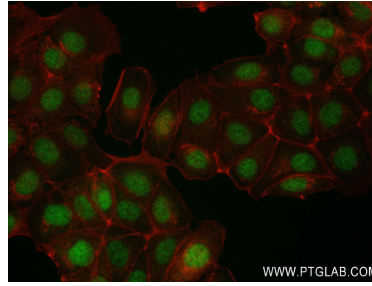
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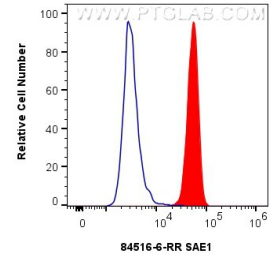
Selected Validation Data



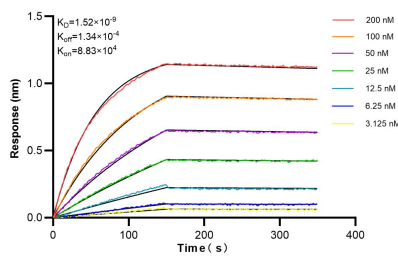
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SAE1 antibody (84516-6-RR, Clone: 241923F12) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using SAE1 antibody (84516-6-RR, Clone: 241923F12) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10⁶ A549 cells were intracellularly stained with 0.25 ug SAE1 Recombinant antibody (84516-6-RR, Clone:241923F12) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 84516-6-RR against Human SAE1 were performed. The affinity constant is 1.52 nM.