For Research Use Only

SAE1 Recombinant antibody

Catalog Number:84516-6-RR



Basic Information

Catalog Number:GenBank Accession Number:Purification Method:84516-6-RRBC000344Protein A purification

 Concentration:
 Genel D (NCBI):
 CloneNo.:

 1000 μ g/ml
 10055
 241923F12

 Source:
 UNIPROT ID:
 Recommended Dilutions:

 Rabbit
 Q9UBE0
 IHC 1:300-1:1200

 Isotype:
 Full Name:
 IF/ICC 1:250-1:1000

IgG SUMO1 activating enzyme subunit 1

Immunogen Catalog Number: Calculated MW: AG0275 38 kDa

Applications

Tested Applications: Positive Controls:

IHC, IF/ICC, FC (Intra), ELISA
Species Specificity:

human

IHC: human colon cancer tissue, IF/ICC: MCF-7 cells, HeLa cells

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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 detectes 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:

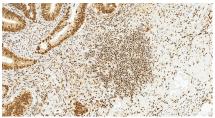
Store at -20°C. Stable for one year after shipment. Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol Aliquoting is unnecessary for -20°C storage

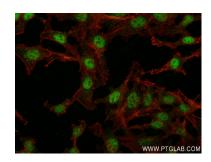
Selected Validation Data



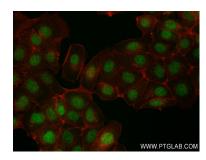
Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 84516-6-RR (SAE1 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



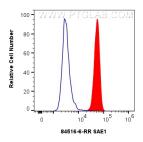
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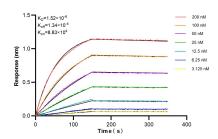
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SAE1 antibody (84516-6-RR, Clone: 241923F12) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



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 $\lg G(H+L)$ (SA00013-2), CL594-Phalloidin (red).



1x10^6 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 (BLL) kinetic assays of 84516-6-RR against Human SAE1 were performed. The affinity constant is 1.52 nM.