abcam

Product datasheet

Anti-SAE1 antibody ab97523

2 References 3 Images

Overview

Product name	Anti-SAE1 antibody
Description	Rabbit polyclonal to SAE1
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Cow
Immunogen	Recombinant fragment, corresponding to a region within amino acids 3-217 of Human SAE1 (AAH00344)
Positive control	293T, A431, H1299, HeLa, HepG2, MOLT4 and Raji cells, A549 Xenograft tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab97523 in the following tested applications.

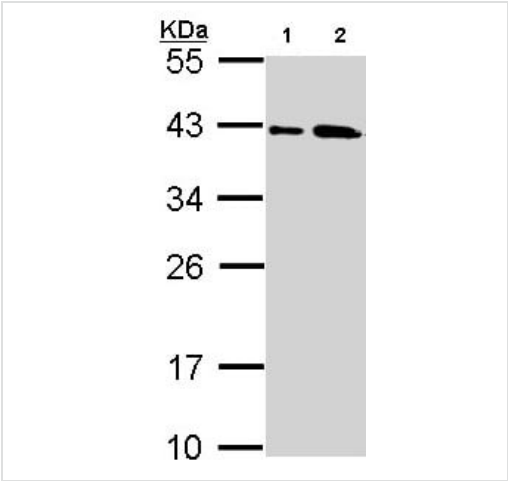
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 38 kDa.
IHC-P		1/100 - 1/250.
ICC/IF		1/100 - 1/200.

Target

Function	The heterodimer acts as a E1 ligase for SUMO1, SUMO2, SUMO3, and probably SUMO4. It mediates ATP-dependent activation of SUMO proteins followed by formation of a thioester bond between a SUMO protein and a conserved active site cysteine residue on UBA2/SAE2.
Tissue specificity	Expression level increases during S phase and drops in G2 phase (at protein level).
Pathway	Protein modification; protein sumoylation.
Sequence similarities	Belongs to the ubiquitin-activating E1 family.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Nucleus.

Images



Western blot - Anti-SAE1 antibody (ab97523)

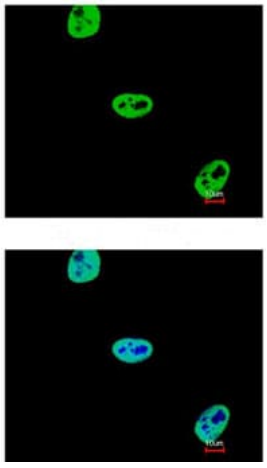
All lanes : Anti-SAE1 antibody (ab97523) at 1/1000 dilution

Lane 1 : A431 whole cell lysate
Lane 2 : H1299 whole cell lysate

Lysates/proteins at 30 µg per lane.

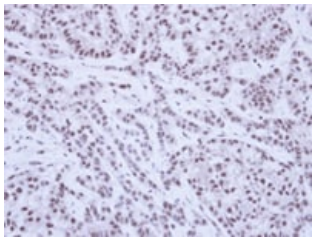
Predicted band size: 38 kDa

10% SDS-PAGE.



Immunocytochemistry/ Immunofluorescence - Anti-SAE1 antibody (ab97523)

Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using ab97523 at 1/200 dilution. Lower image is merged with DNA probe.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAE1 antibody (ab97523)

Immunohistochemical analysis of paraffin-embedded A549 Xenograft, using ab97523 at 1/100 dilution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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