

Product datasheet

Anti-SA2 antibody ab4463

★★★★★ 1 Abreviews 7 References 3 Images

Overview

Product name	Anti-SA2 antibody
Description	Goat polyclonal to SA2
Host species	Goat
Specificity	We have data to indicate that this antibody may not cross react with <i>Xenopus laevis</i> . However, this has not been conclusively tested and expression levels may vary in certain cell lines/tissues.
Tested applications	Suitable for: WB, ICC, ICC/IF
Species reactivity	Reacts with: Mouse, Human, <i>Xenopus laevis</i>
Immunogen	Synthetic peptide corresponding to Human SA2.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium azide Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab4463** 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		1/1000 - 1/10000. Detects a band of approximately 134 kDa (predicted molecular weight: 134 kDa).
ICC		1/500 - 1/2000.
ICC/IF	★★★★★	1/200.

Target

Function

Component of cohesin complex, a complex required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. The cohesin complex may also play a role in spindle pole assembly during mitosis.

Sequence similarities

Belongs to the SCC3 family.
Contains 1 SCD (stromalin conservative) domain.

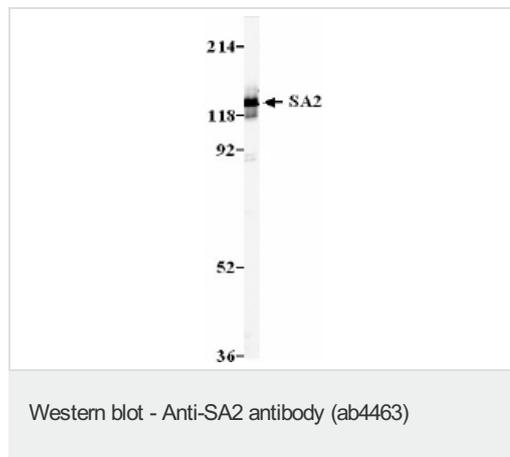
Post-translational modifications

Phosphorylated by PLK. The large dissociation of cohesin from chromosome arms during prophase is partly due to its phosphorylation.

Cellular localization

Nucleus. Chromosome. Chromosome > centromere. Associates with chromatin. Before prophase it is scattered along chromosome arms. During prophase, most of cohesin complexes dissociate from chromatin probably because of phosphorylation by PLK, except at centromeres, where cohesin complexes remain. At anaphase, the RAD21 subunit of cohesin is cleaved, leading to the dissociation of the complex from chromosomes, allowing chromosome separation. In germ cells, cohesin complex dissociates from chromatin at prophase I, and may be replaced by a meiosis-specific cohesin complex.

Images



Nuclear Extract from HeLa cells ($\sim 5 \times 10^5$ cells).

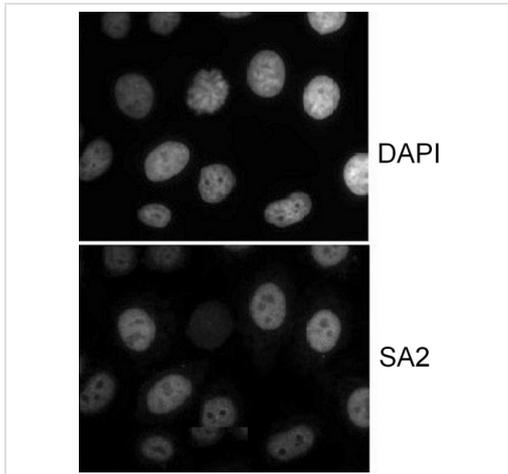
ab4463 at 0.5 $\mu\text{g/ml}$.

Detection: ECL with 15 second exposure.

Nuclear Extract from HeLa cells ($\sim 5 \times 10^5$ cells).

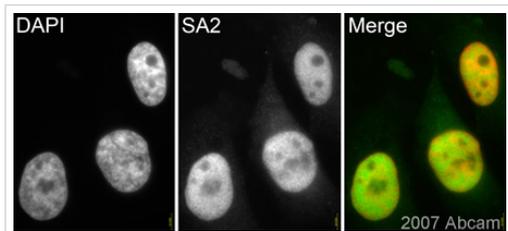
ab4463 at 0.5 $\mu\text{g/ml}$.

Detection: ECL with 15 second exposure.



Immunocytochemistry analysis of HeLa cells (extracted for 5 minutes at 4°C in 0.5% Triton in CSK buffer) labelling SA2 with ab4463 at 1µg/ml.

Immunocytochemistry - Anti-SA2 antibody (ab4463)



Goat polyclonal to SA2 antibody (ab4463) detecting Stromal antigen 2 in asynchronous HeLa cells, together with a Donkey anti-goat secondary antibody conjugated to Cy3 and DAPI as counterstain. Please refer to abreview for further protocol details.

Immunocytochemistry/ Immunofluorescence - Anti-SA2 antibody (ab4463)

This image is courtesy of an Abreview submitted by Dr Kirk McManus

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors