abcam

Product datasheet

Anti-SA2 antibody - C-terminal ab229609

1 References 4 Images

Overview

Product name	Anti-SA2 antibody - C-terminal
Description	Rabbit polyclonal to SA2 - C-terminal
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide within Human SA2 (C terminal). The exact sequence is proprietary. Carrier-protein conjugated Database link: **Q8N3U4**
Positive control	WB: HEK-293T, A431, HeLa and HepG2 whole cell extracts. IP: HeLa whole cell extract. ICC/IF: HeLa cells.
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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab229609 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 - 1/10000. Predicted molecular weight: 141 kDa.
IP		1/100 - 1/500.
ICC/IF		1/100 - 1/1000.

Target

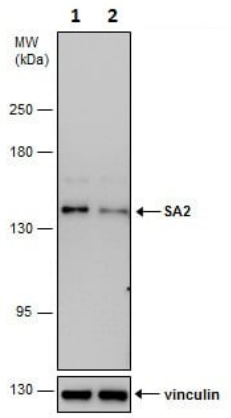
Function Component of cohesin complex, a complex required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing 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



Western blot - Anti-SA2 antibody - C-terminal (ab229609)

All lanes : Anti-SA2 antibody - C-terminal (ab229609) at 1/6000 dilution

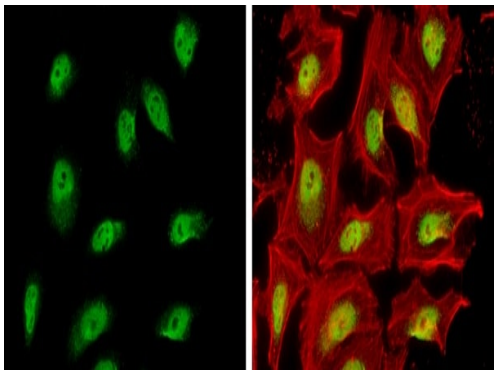
Lane 1 : Non-transfected HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract
Lane 2 : SA2 shRNA-transfected HEK-293T whole cell extract

Lysates/proteins at 30 µg per lane.

Developed using the ECL technique.

Predicted band size: 141 kDa

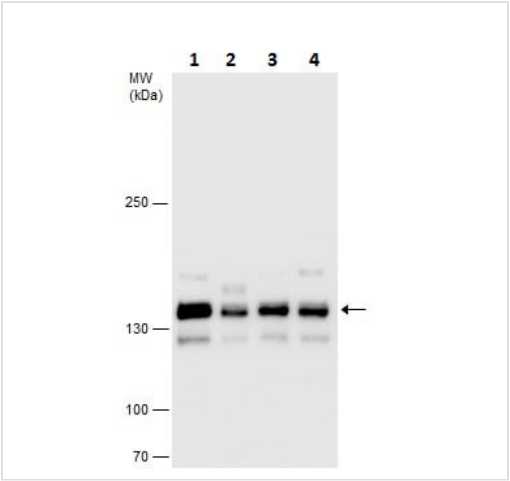
5% SDS-PAGE gel.



Immunocytochemistry/ Immunofluorescence - Anti-SA2 antibody - C-terminal (ab229609)

4% paraformaldehyde-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for SA2 (green) using ab229609 1/500 dilution in ICC/IF.

Nuclear counterstain: Hoechst 33342 (blue). F-actin stained with Phalloidin (red).



Western blot - Anti-SA2 antibody - C-terminal (ab229609)

All lanes : Anti-SA2 antibody - C-terminal (ab229609) at 1/1000 dilution

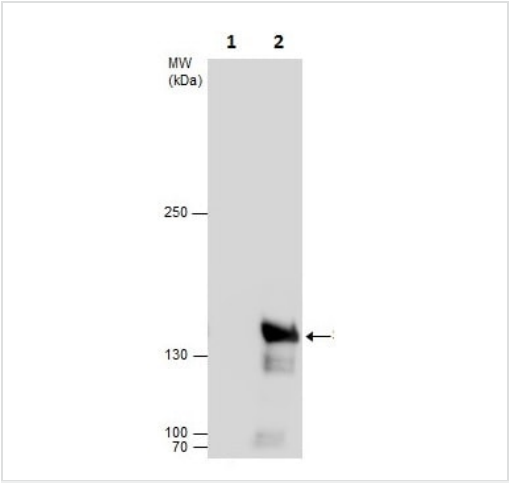
Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell extract
Lane 2 : A431 (human epidermoid carcinoma cell line) whole cell extract
Lane 3 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract
Lane 4 : HepG2 (human liver hepatocellular carcinoma cell line) whole cell extract

Lysates/proteins at 30 µg per lane.

Developed using the ECL technique.

Predicted band size: 141 kDa

5% SDS-PAGE gel.



Immunoprecipitation - Anti-SA2 antibody - C-terminal (ab229609)

SA2 was immunoprecipitated from HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract with 5µg ab229609. Western blot was performed from the immunoprecipitate using ab229609.

Lane 1: Control IgG instead of ab229609 in HeLa whole cell extract.

Lane 2: ab229609 IP in HeLa whole cell extract.

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