abcam

Product datasheet

Anti-SA2 antibody [EPR10993] - N-terminal ab171970

Recombinant RabMAb

4 Images

Overview

Product name	Anti-SA2 antibody [EPR10993] - N-terminal
Description	Rabbit monoclonal [EPR10993] to SA2 - N-terminal
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), ICC/IF, WB **Unsuitable for:** IHC-P or IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human SA2 aa 1-100 (N terminal) (Cysteine residue). The exact sequence is proprietary. Database link: **Q8N3U4**
Positive control	MCF7 and Jurkat cells. Jurkat, K-562, MCF7 and HeLa cell lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant

Clonality	Monoclonal
Clone number	EPR10993
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab171970 in the following tested applications.

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

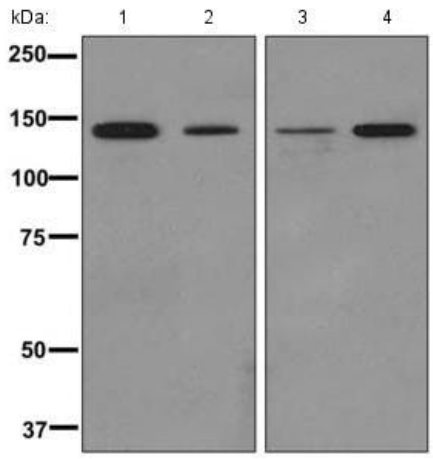
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/100 - 1/250.
WB		1/1000 - 1/5000. Predicted molecular weight: 141 kDa.

Application notes Is unsuitable for IHC-P or IP.

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 [EPR10993] - N-terminal (ab171970)

All lanes : Anti-SA2 antibody [EPR10993] - N-terminal (ab171970) at 1/1000 dilution

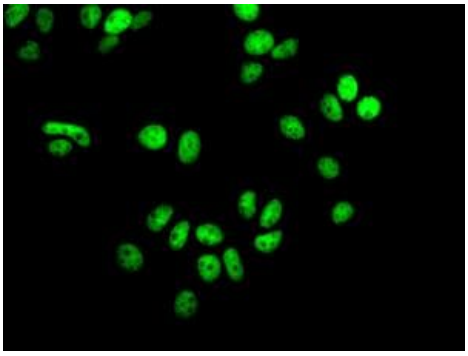
Lane 1 : Jurkat cell lysate
Lane 2 : K-562 cell lysate
Lane 3 : MCF7 cell lysate
Lane 4 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Standard HRP labeled goat anti-rabbit at 1/2000 dilution

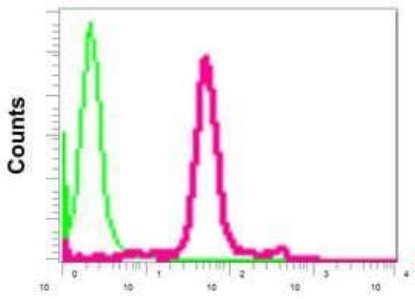
Developed using the ECL technique.

Predicted band size: 141 kDa



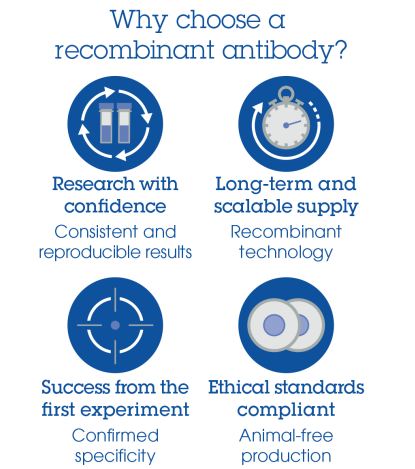
Immunocytochemistry/ Immunofluorescence - Anti-SA2 antibody [EPR10993] - N-terminal (ab171970)

Immunofluorescence analysis of MCF7 cells, labeling SA2 using ab171970 at a 1/100 dilution.



Flow Cytometry (Intracellular) - Anti-SA2 antibody [EPR10993] - N-terminal (ab171970)

Intracellular flow cytometric analysis of permeabilized Jurkat cells, labeling SA2 using ab171970 at a 1/10 dilution (red) or a rabbit IgG as negative control (green).



Anti-SA2 antibody [EPR10993] - N-terminal (ab171970)

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