abcam

Product datasheet

Anti-SA2 antibody [EPR17865] - C-terminal ab201451

KO 評価済 リコンビナント RabMAb

★★★★★ 2 Abreviews 1 References 画像数 13

製品の概要

製品名	Anti-SA2 antibody [EPR17865] - C-terminal
製品の詳細	Rabbit monoclonal [EPR17865] to SA2 - C-terminal
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), WB, IHC-P, ICC/IF
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HeLa, HCT116, MCF-7, K562, C6, Raw264.7 and NIH3T3 cell lysates; Human fetal brain and Mouse spleen lysates; IHC-P: Human breast carcinoma, human tonsil, mouse and rat spleen tissue; IF: MCF-7 and K562 cells.
特記事項	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**.

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR17865

アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab201451の使用に適用されます

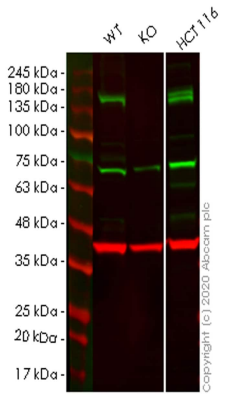
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/25000.
WB	★★★★★ (2)	1/1000. Detects a band of approximately 141 kDa (predicted molecular weight: 141 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/500.

ターゲット情報

機能	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.
配列類似性	Belongs to the SCC3 family. Contains 1 SCD (stromalin conservative) domain.
翻訳後修飾	Phosphorylated by PLK. The large dissociation of cohesin from chromosome arms during prophase is partly due to its phosphorylation.
細胞内局在	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.

画像



Western blot - Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

All lanes : Anti-SA2 antibody [EPR17865] - C-terminal (ab201451) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : STAG2 knockout HeLa cell lysate
Lane 3 : HCT116 cell lysate

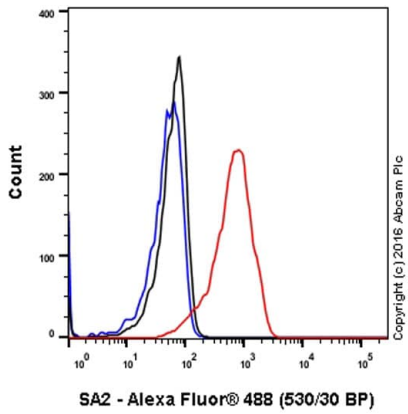
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 141 kDa
Observed band size: 141 kDa

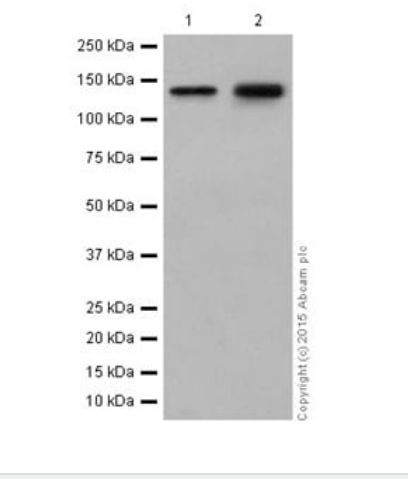
Lanes 1-3: Merged signal (red and green). Green - ab201451 observed at 141 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab201451 Anti-SA2 antibody [EPR17865] - C-terminal was shown to specifically react with SA2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265461** (knockout cell lysate **ab257707**) was used. Wild-type and SA2 knockout samples were subjected to SDS-PAGE. ab201451 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

Intracellular Flow Cytometry analysis of K562 (human chronic myelogenous leukemia) labelling SA2 with purified ab201451 at 1/25000 (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Alexa Fluor® 488 goat anti-rabbit IgG (1/2000) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



Western blot - Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

All lanes : Anti-SA2 antibody [EPR17865] - C-terminal (ab201451) at 1/10000 dilution

Lane 1 : MCF-7 (Human breast adenocarcinoma cell line) cell lysate
Lane 2 : K562 (Human chronic myelogenous leukemia cells from bone marrow) cell lysate

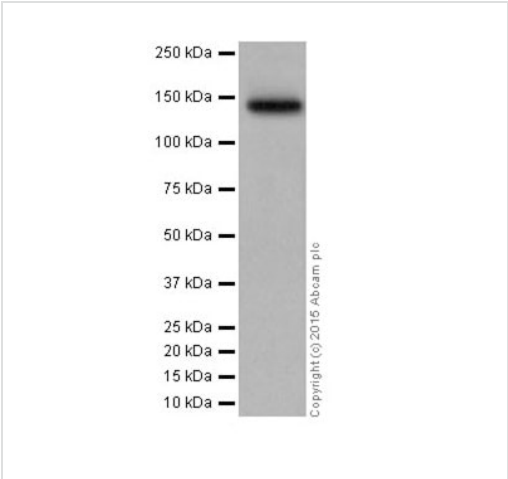
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 141 kDa
Observed band size: 141 kDa

Exposure time: 3 minutes

5% NFDM/TBST: Blocking and diluting buffer.



Western blot - Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

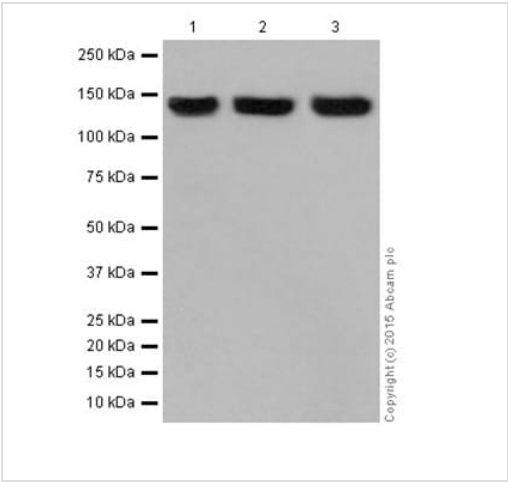
Anti-SA2 antibody [EPR17865] - C-terminal (ab201451) at 1/1000 dilution + Human fetal brain lysate at 10 µg

Secondary
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 141 kDa
Observed band size: 141 kDa

Exposure time: 1 minute

5% NFDM/TBST: Blocking and diluting buffer.



Western blot - Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

All lanes : Anti-SA2 antibody [EPR17865] - C-terminal (ab201451) at 1/10000 dilution

Lane 1 : C6 (Rat glial tumor cells) cell lysate
Lane 2 : Raw264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) cell lysate
Lane 3 : NIH 3T3 (Mouse embyro fibroblast cells) cell lysate

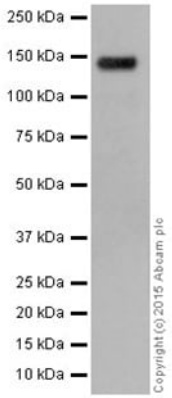
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 141 kDa
Observed band size: 141 kDa

Exposure time: 3 minutes

5% NFDM/TBST: Blocking and diluting buffer.



Western blot - Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

Anti-SA2 antibody [EPR17865] - C-terminal (ab201451) at 1/1000 dilution + mouse spleen lysate at 10 µg

Secondary

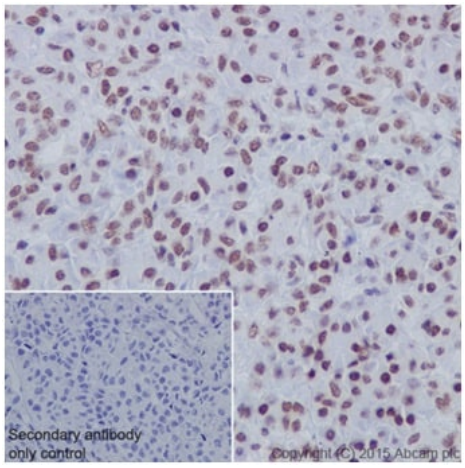
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 141 kDa

Observed band size: 141 kDa

Exposure time: 1 minute

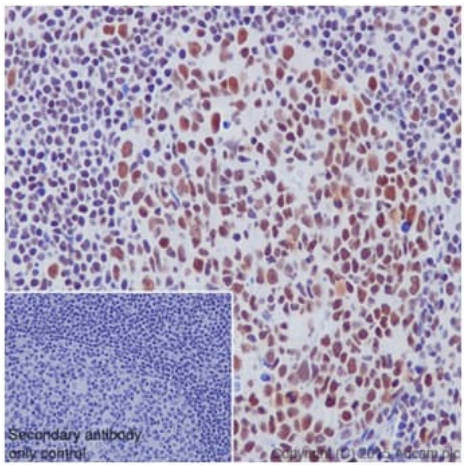
5% NFDM/TBST: Blocking and diluting buffer.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling SA2 using ab201451 at 1/2000 dilution. A Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) was used as secondary at 1/500 dilution. Counterstain: Hematoxylin.
Inset image: negative control obtained using PBS instead of ab201451, and secondary antibody only.
Note: Nuclear staining on Human breast carcinoma tissue was observed.

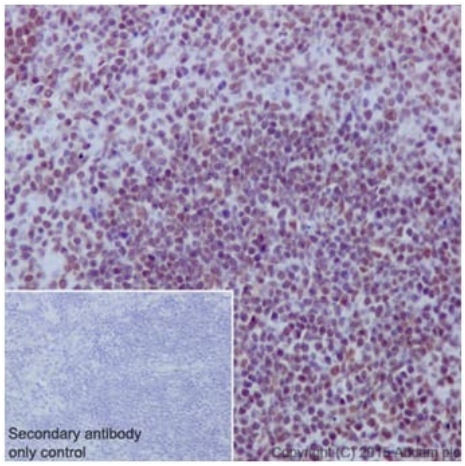
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling SA2 using ab201451 at 1/2000 dilution. A Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) was used as secondary at 1/500 dilution. Counterstain: Hematoxylin.
Inset image: negative control obtained using PBS instead of ab201451, and secondary antibody.
Note: Nuclear staining on Human tonsil tissue was observed.

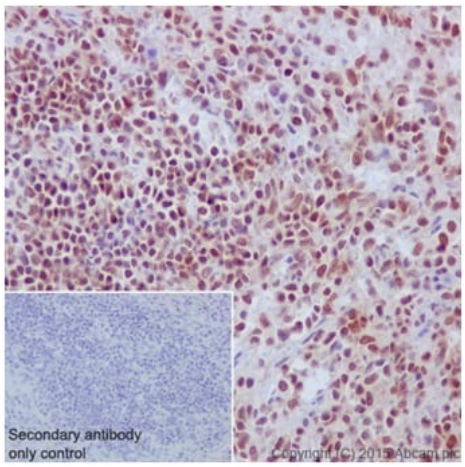
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling SA2 using ab201451 at 1/2000 dilution. A Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) was used as secondary at 1/500 dilution. Counterstain: Hematoxylin.
Inset image: negative control obtained using PBS instead of ab201451, and secondary antibody.
Note: Nuclear staining on mouse spleen tissue was observed.

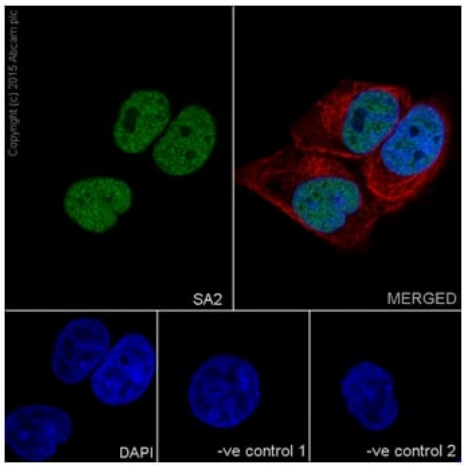
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

Immunohistochemical analysis of paraffin-embedded rat spleen tissue labeling SA2 using ab201451 at 1/2000 dilution. A Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) was used as secondary at 1/500 dilution. Counterstain: Hematoxylin.
Inset image: negative control obtained using PBS instead of ab201451, and secondary antibody.
Note: Nuclear staining on rat spleen tissue was observed.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

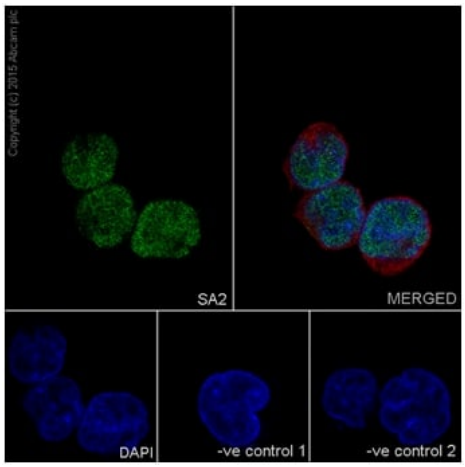


Immunocytochemistry/ Immunofluorescence - Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MCF7 (Human breast adenocarcinoma cell line) cells labeling SA2 with ab201451 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green).

Confocal image showing nuclear staining on MCF7 cell line.

The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).
The negative controls are as follows:
1. ab201451 at 1/500 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
2. **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.

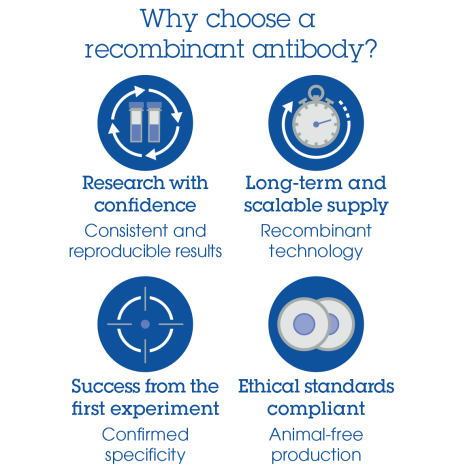


Immunocytochemistry/ Immunofluorescence - Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized K562 (Human chronic myelogenous leukemia cells from bone marrow) cells labeling SA2 with ab201451 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/500 dilution (green).

Confocal image showing nuclear staining on K562 cell line.

The nuclear counter stain is DAPI (blue). Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution (red).
The negative controls are as follows:
1. ab201451 at 1/500 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/500 dilution.
2. **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/500 dilution.



Anti-SA2 antibody [EPR17865] - C-terminal (ab201451)

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