abcam

ab313878

Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free

Recombinant | RabMAb | Advanced Validation | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR26892-61
Purification technique	Affinity purification Protein A
Specificity	Unsuitable for human IHC-P.
Concentration	1.031 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ChIP-seq

Tested

Species	Human, Mouse

Dilution info	-
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human, Mouse
Dilution info	-
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

Species	Human
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Transfected cell line - Human
Dilution info	-
Notes	-

WB

Tested

Species	Human, Mouse, Rat, Transfected cell line - Human
Dilution info	-
Notes	-

IP

Tested

Species	Human, Mouse
Dilution info	-

Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

ChIC/CUT&RUN-seq

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human, Mouse
Dilution info	-
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

Target data

See full target information STAG2

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.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab313878 is the carrier-free version of ab313877.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	SA2 isoform-2 also known as Structural Maintenance of Chromosomes Protein 3 (SMC3) is a component of the cohesin complex which plays a critical role in the cohesion of sister chromatids. SA2 isoform-2 has a mass of approximately 150 kDa. It is expressed in a variety of tissues with significant expression in dividing cells where its function contributes to proper cell division and chromosome segregation. The capacity of SA2 isoform-2 to bind and stabilize cohesion complexes in the nucleus is fundamental for maintaining genomics stability during the cell cycle.
Biological function summary	SA2 isoform-2 supports the integrity of chromatid pairing. As part of the cohesin complex it interacts with other cohesin subunits such as SMC1 SMC3 and RAD21. This complex regulates chromosome architecture by facilitating loop formation and sister chromatid cohesion. These functionalities are essential during the cell cycle particularly in the S and G2 phases ensuring that chromatid pairs do not prematurely separate before mitosis.
Pathways	SA2 isoform-2 plays an important role in cell cycle regulation and DNA damage repair pathways. Within the cell cycle its function is connected to the loading and stabilization of cohesin complexes that enable proper chromosome alignment and segregation during mitosis. In DNA repair pathways it associates with proteins like

	PDS5 and WAPL which contribute to modulating cohesin dynamics and ensuring successful repair of DNA double-strand breaks. These activities are pivotal to preserving chromosomal stability.
Associated diseases and disorders	Mutations or dysfunctions in SA2 isoform-2 are linked to cohesinopathies including Cornelia de Lange Syndrome and certain cancer types. In Cornelia de Lange Syndrome mutations affecting SA2 isoform-2 or its interacting partners such as NIPBL result in developmental abnormalities and intellectual disability. In cancer aberrant expression or malfunctions in components of the cohesin complex which includes SA2 isoform-2 can lead to genomic instability promoting tumorigenesis and driving cancer progression.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

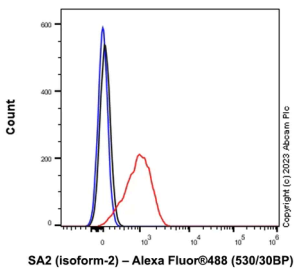
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

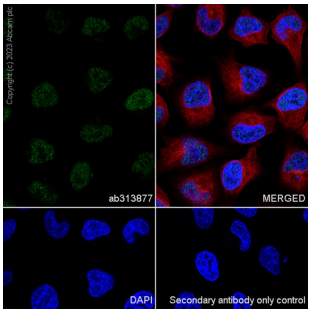
Full details and terms and conditions can be found here:
Terms & Conditions.

21 product images



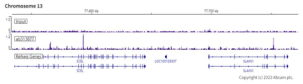
Flow Cytometry - Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free (ab313878)

This data was developed using ab313877, the same antibody clone in a different buffer formulation. Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HeLa (human cervical adenocarcinoma epithelial cell) cells labelling SA2 (isoform-2) with ab313877 at 1/50 dilution (1 ug)/(Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.



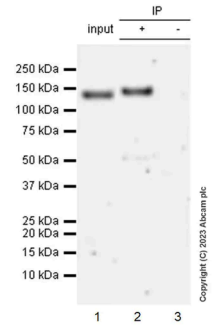
Immunocytochemistry/ Immunofluorescence - Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free (ab313878)

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ChIP-sequencing - Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free (ab313878)

This data was developed using ab313877, the same antibody clone in a different buffer formulation. ChIP-sequencing - Anti-SA2 (isoform-2) antibody [EPR26892-61] (ab313877) Chromatin was prepared from HeLa cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 10^7 cells and 8 µg of ab313877 [EPR26892-61]. ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads. The Input control is also shown.



Immunoprecipitation - Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free (ab313878)

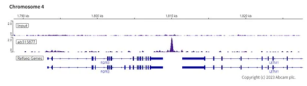
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All lanes:
Immunoprecipitation - Anti-SA2 (isoform-2) antibody [EPR26892-61] (ab313877) at 1/30 dilution

All lanes:
Hela (human cervical adenocarcinoma epithelial cell) whole cell lysate

Secondary

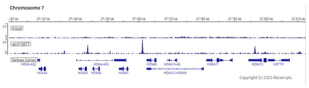
All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366)

Exposure time: 180s



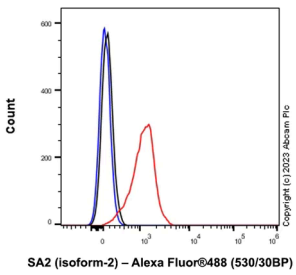
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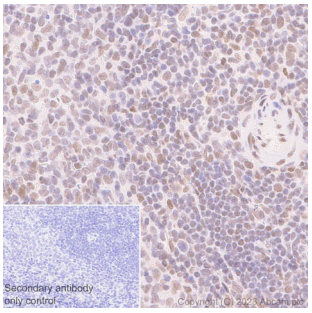
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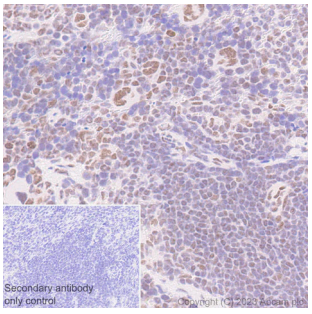
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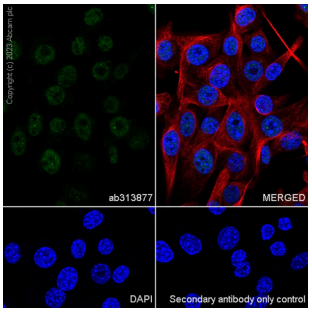
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free (ab313878)

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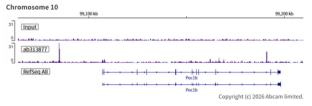
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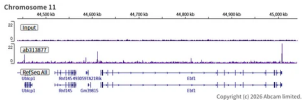
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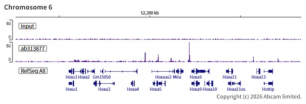
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Chromatin was prepared from 3T3-L1 cells. Cells were fixed with 1% formaldehyde for 10 minutes. ChIP was performed with 5 x 10^6 cells and 4 µg of ab313877 [EPR26892-61]. ChIP DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 30 million reads. The Input control is also shown.



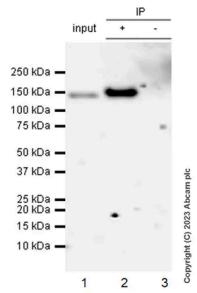
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Immunoprecipitation - Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free (ab313878)

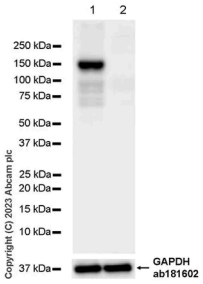
This data was developed using ab313877, the same antibody clone in a different buffer formulation. SA2 (isoform-2) was immunoprecipitated from 0.35 mg RAW 264.7 (mouse abelson murine leukemia virus-induced tumor macrophage) whole cell lysate with ab313877 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab313877 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution. Lane 1: RAW 264.7 (mouse abelson murine leukemia virus-induced tumor macrophage) whole cell lysate Lane 2: ab313877 IP in RAW 264.7 (mouse abelson murine leukemia virus-induced tumor macrophage) whole cell lysate Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab313877 in RAW 264.7 whole cell lysate. Blocking and dilution buffer and concentration: 5% NFDM/TBST. Exposure time: 180 seconds
All lanes:
Immunoprecipitation - Anti-SA2 (isoform-2) antibody [EPR26892-61] (ab313877) at 1/30 dilution

All lanes:
RAW 264.7 (mouse abelson murine leukemia virus-induced tumor macrophage) whole cell lysate

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366)

Exposure time: 180s



Western blot - Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free (ab313878)

This data was developed using ab313877, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST The Wild-type Hela and STAG2 knock out Hela lysates were kindly provided by an anonymous collaborator. In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution. Exposure time: 10 seconds
All lanes:
Western blot - Anti-SA2 (isoform-2) antibody [EPR26892-61] (ab313877) at 1/1000 dilution

Lane 1:
Wild-type HeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate at 20 µg

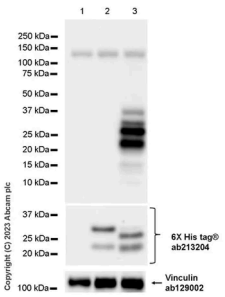
Lane 2:
STAG2 knock out Hela whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 150 kDa

Exposure time: 10s



Western blot - Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free (ab313878)

SA2 (isoform-2) Western blot staining using rabbit Anti-SA2 (isoform-2) antibody

This data was developed using ab313877, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST This antibody does not cross-react with human STAG2 (isoform-1). In Western blot, Anti-Vinculin antibody [EPR8185] (ab129002) staining at 1/10000 dilution. In Western blot, Anti-6X His tag® antibody [EPR20547] - ChIP Grade (ab213204) staining at 1/5000 dilution Exposure time: 180 seconds
All lanes:
Western blot - Anti-SA2 (isoform-2) antibody [EPR26892-61] (ab313877) at 1/1000 dilution

Lane 1:
293T cells transfected with an empty vector containing a His tag, whole cell lysate at 20 µg

Lane 2:
293T cells transfected with a human STAG2 (isoform-1) expression vector containing a His-tag, whole cell lysate at 20 µg

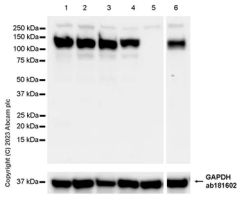
Lane 3:
293T cells transfected with a human STAG2 (isoform-2) expression vector containing a His-tag, whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 25-30 kDa, 150 kDa

Exposure time: 180s



Western blot - Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free (ab313878)

This data was developed using ab313877, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST The Wild-type GM-12878 and STAG2 knock out GM-12878 lysates were kindly provided by an anonymous collaborator. In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution. Exposure time: 26 seconds
All lanes:
Western blot - Anti-SA2 (isoform-2) antibody [EPR26892-61] (ab313877) at 1/1000 dilution

Lane 1:
K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate at 20 µg

Lane 2:
HeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 3:
293T (human embryonic kidney epithelial cell) whole cell lysate at 20 µg

Lane 4:
Wild-type GM-12878 whole cell lysate at 20 µg

Lane 5:
STAG2 knock out GM-12878 whole cell lysate at 20 µg

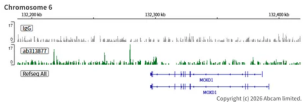
Lane 6:
C6 (rat glial tumor glial cell) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

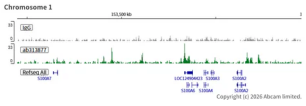
Observed band size: 150 kDa

Exposure time: 26s



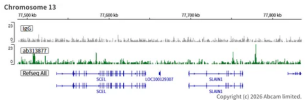
ChIC/CUT&RUN sequencing - Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free (ab313878)

This data was developed using ab313877, the same antibody clone in a different buffer formulation.
ChIC/CUT&RUN was performed using a pAG-MNase at a final concentration of 700 ng/mL, 2.5 x 10^5 HeLa (human cervical adenocarcinoma epithelial cell) cells and 5 µg of ab313877 [EPR26892-61]. The resulting DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 10 million reads. The negative IgG control ab172730 is also shown. The University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.



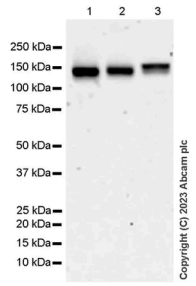
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ChIC/CUT&RUN sequencing - Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free (ab313878)

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ChIC/CUT&RUN was performed using a pAG-MNase at a final concentration of 700 ng/mL, 2.5 x 10^5 HeLa (human cervical adenocarcinoma epithelial cell) cells and 5 µg of ab313877 [EPR26892-61]. The resulting DNA was sequenced on the Illumina NovaSeq 6000 to a depth of 10 million reads. The negative IgG control ab172730 is also shown. The University of Geneva owns patents relevant to ChIC (Chromatin Immuno-Cleavage) methods.



Western blot - Anti-SA2 (isoform-2) antibody [EPR26892-61] - BSA and Azide free (ab313878)

This data was developed using ab313877, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: 5% NFDM/TBST Exposure time: 180 seconds
All lanes:
Western blot - Anti-SA2 (isoform-2) antibody [EPR26892-61] (ab313877) at 1/1000 dilution

Lane 1:
RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate at 20 µg

Lane 2:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate at 20 µg

Lane 3:
Mouse spleen tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 150 kDa

Exposure time: 180s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.