

Product datasheet

Anti-Survivin antibody [EPR20448] ab208938

Recombinant RabMAb

★★★★★ 1 Abreviews 1 References 7 Images

Overview

Product name	Anti-Survivin antibody [EPR20448]
Description	Rabbit monoclonal [EPR20448] to Survivin
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt, IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human Survivin aa 1 to the C-terminus. The exact sequence is proprietary. Database link: O15392
Positive control	WB: Jurkat, HeLa and A549 whole cell lysate; human ovary cancer tissue lysate. ICC/IF: A549 and HeLa cells. Flow Cyt: HeLa and A549 cells. IP: A549 whole cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.</p>

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as 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: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20448
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab208938** in the following tested applications.

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

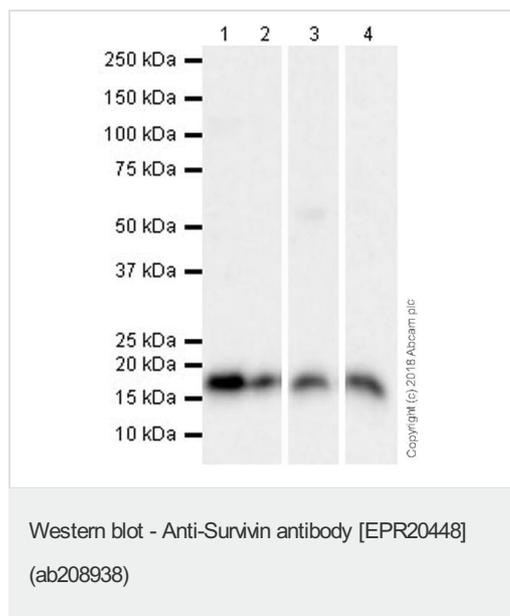
Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 16 kDa (predicted molecular weight: 16 kDa).
ICC/IF	★★★★★	1/5000.
Flow Cyt		1/500.
IP		1/30.

Target

Function	Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. The complex with RAN plays a role in mitotic spindle formation by serving as a physical scaffold to help deliver the RAN effector molecule TPX2 to microtubules. May play a role in neoplasia. May counteract a default induction of apoptosis in G2/M phase. Inhibitor of caspase-3 and caspase-7. Isoform 2 and isoform 3 do not appear to play vital roles in mitosis. Isoform 3 shows a marked reduction in its anti-apoptotic effects when compared with the displayed wild-type isoform.
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Tissue specificity	Expressed only in fetal kidney and liver, and to lesser extent, lung and brain. Abundantly expressed in adenocarcinoma (lung, pancreas, colon, breast, and prostate) and in high-grade lymphomas. Also expressed in various renal cell carcinoma cell lines.
Sequence similarities	Belongs to the IAP family. Contains 1 BIR repeat.
Developmental stage	Expression is cell cycle-dependent and peaks at mitosis.
Domain	The BIR repeat is necessary and sufficient for HBXIP binding.
Post-translational modifications	Ubiquitination is required for centrosomal targeting. In vitro phosphorylation at Thr-117 by AURKB/STK12 prevents interaction with INCENP and localization to mitotic chromosomes.
Cellular localization	Cytoplasm. Nucleus. Chromosome. Chromosome > centromere. Cytoplasm > cytoskeleton > spindle. Localizes on chromosome arms and inner centromeres from prophase through metaphase and then transferring to the spindle midzone and midbody from anaphase through cytokinesis. Colocalizes with AURKB at mitotic chromosomes.

Images



All lanes : Anti-Survivin antibody [EPR20448] (ab208938) at 1/1000 dilution

Lane 1 : Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate

Lane 2 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 3 : A549 (human lung carcinoma cell line) whole cell lysate

Lane 4 : Human ovary cancer whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

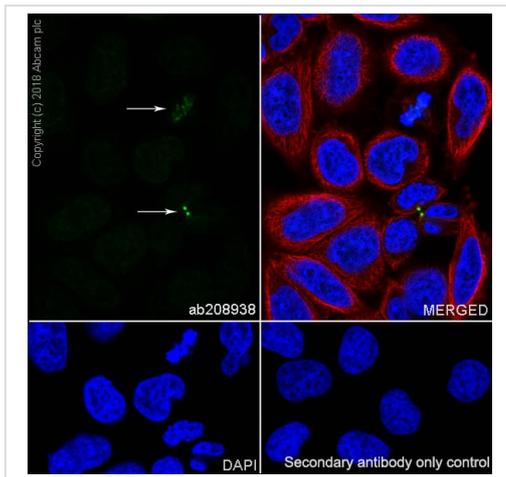
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Predicted band size: 16 kDa

Observed band size: 16 kDa

Blocking/Dilution: 5% NFD/MTBST

Exposure times: Lanes 1-2: 70 seconds; Lane 3: 48 seconds; Lane 4: 3 minutes

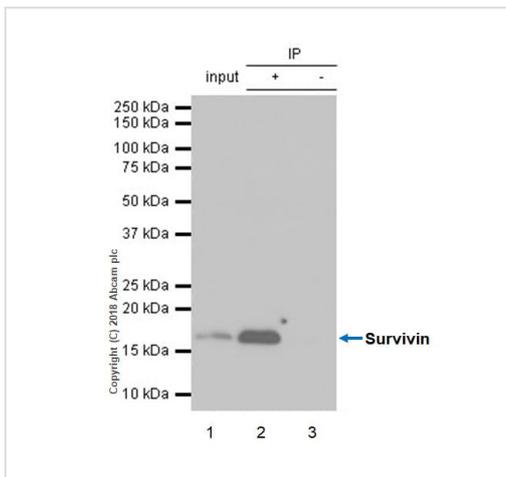


Immunocytochemistry/ Immunofluorescence - Anti-Survivin antibody [EPR20448] (ab208938)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Survivin with ab208938 at 1/5000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing kinetochores and midbody (arrow) staining in the HeLa cell line. The nuclear counter stain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) at 1/500 dilution.



Immunoprecipitation - Anti-Survivin antibody [EPR20448] (ab208938)

Survivin was immunoprecipitated from 0.35mg of A549 (human lung carcinoma cell line) whole cell lysate with ab208938 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab208938 at 1/1,000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10,000 dilution.

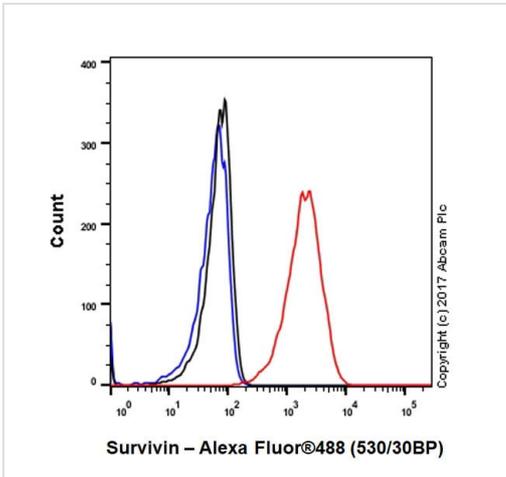
Lane 1: A549 whole cell lysate 10 µg (Input).

Lane 2: ab208938 IP in A549 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab208938 in A549 whole cell lysate.

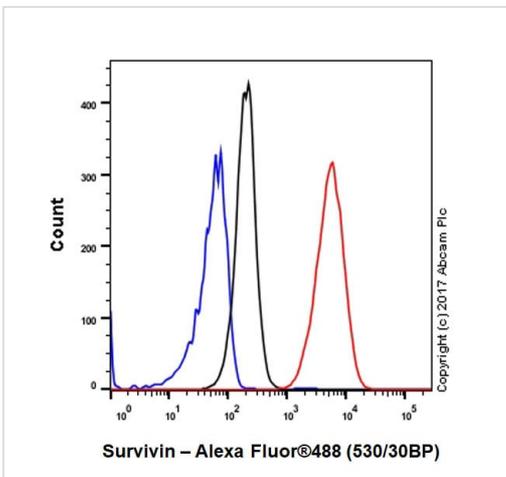
Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes.



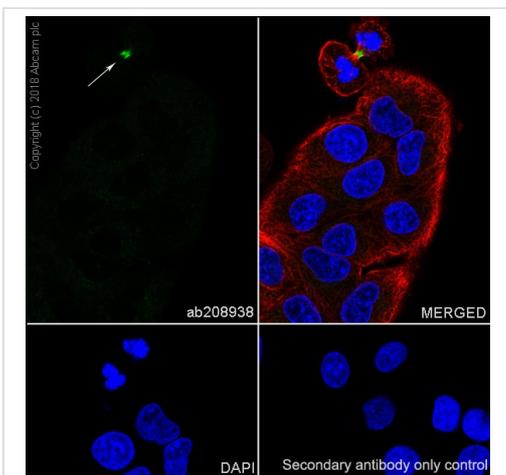
Flow Cytometry - Anti-Survivin antibody [EPR20448] (ab208938)

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized A549 (human lung carcinoma cell line) cell line labeling Survivin with ab208938 at 1/500 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) at 1/2000 dilution was used as the secondary antibody.



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Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Survivin antibody [EPR20448] (ab208938)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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