

Product datasheet

Anti-Survivin antibody ab469

★★★★☆ [10 Abreviews](#) [128 References](#) [8 Images](#)

Overview

Product name	Anti-Survivin antibody
Description	Rabbit polyclonal to Survivin
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P, ELISA, Flow Cyt, IP, RIP
Species reactivity	Reacts with: Mouse, Rat, Cow, Cat, Dog, Human
Immunogen	Recombinant full length protein corresponding to Human Survivin . Database link: O15392

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: 7.40 Preservative: 0.05% Sodium azide Constituents: 0.876% Sodium chloride, 99% Tris glycine
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab469 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
ICC/IF	★★★★★ (2)	1/250. See Abreview by William Moore; fix with formaldehyde.
WB	★★★★★ (4)	Use a concentration of 1 µg/ml. Predicted molecular weight: 16 kDa. Found to work at 1/5000 dilution.
IHC-P	★★★★★ (3)	Use a concentration of 0.5 µg/ml. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.
ELISA		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
IP	★★★★★ (1)	Use at an assay dependent concentration. Recommended to use at 5-7 µg/ml.
RIP		Use at an assay dependent concentration. PubMed: 19542185

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.

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.

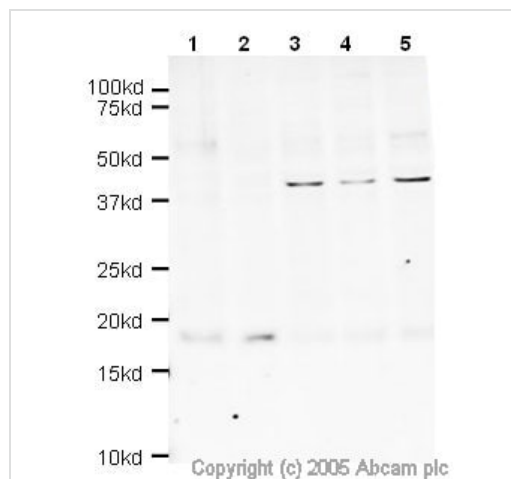
Post-translational modifications

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



Western blot - Anti-Survivin antibody (ab469)

All lanes : Anti-Survivin antibody (ab469) at 1 μ g/ml

Lane 1 : HeLa Nuclear

Lane 2 : HeLa whole cell lysate

Lane 3 : A431 cell lysate

Lane 4 : Jurkat cell lysate

Lane 5 : HEK293 cell lysate

Lysates/proteins at 20 μ g per lane.

Secondary

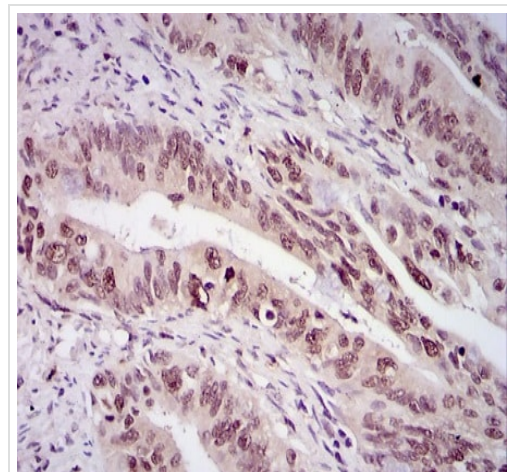
All lanes : Alexa Fluor anti-rabbit at 1/5000 dilution

Performed under reducing conditions.

Predicted band size: 16 kDa

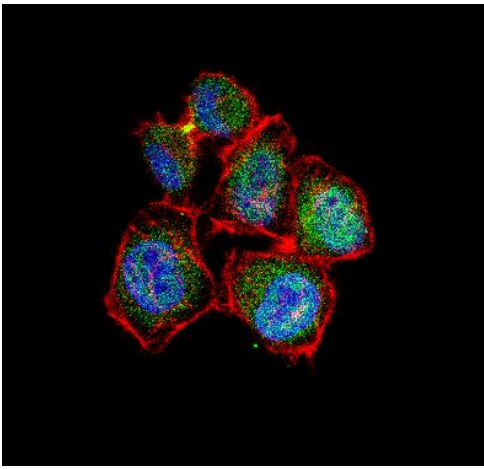
Observed band size: 18 kDa

Additional bands at: 37 kDa, 50 kDa. We are unsure as to the identity of these extra bands.



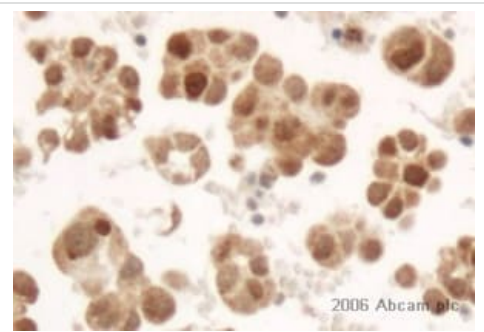
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Survivin antibody (ab469)

Paraffin-embedded human rectal cancer tissue stained for Survivin using ab469 at 0.5 μ g/ml in immunohistochemical analysis, using DAB with hematoxylin counterstain.



Immunocytochemistry/ Immunofluorescence - Anti-Survivin antibody (ab469)

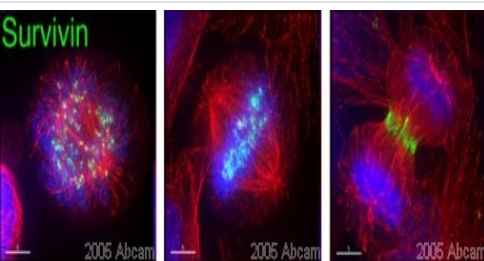
HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for Survivin (green) using ab469 at 1/10 dilution in ICC/IF. An Alexa Fluor 488-conjugated Goat to rabbit IgG was used as secondary antibody (green). Actin filaments were labeled with Alexa Fluor 568 phalloidin (red). DAPI was used to stain the cell nuclei (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Survivin antibody (ab469)

This image is courtesy of an Abreview submitted by Dr Ben Davidson

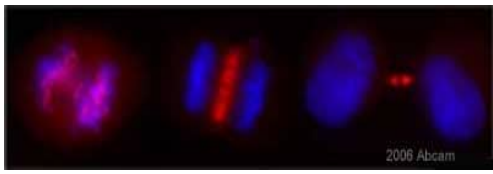
ab469 staining Survivin from Human Ovarian carcinoma tumour tissue sections by Immunohistochemistry (Formalin-fixed paraffin-embedded sections). Heat mediated antigen retrieval was performed (Citrate buffer pH=6, microwave oven) and the tissue was then formaldehyde fixed and blocked (Hydrogen peroxide 0.03%). An HRP conjugated goat anti-rabbit was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-Survivin antibody (ab469)

This image is courtesy of William Mbore

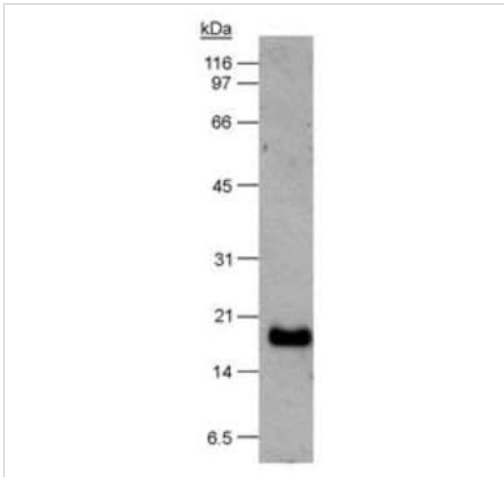
HeLa cells ([ab150035](#)) in prometaphase, metaphase and anaphase stained with anti-Survivin (green), anti-tubulin (red) and DAPI (blue). These images were kindly supplied as part of the review submitted by William Moore, University of Dundee, UK.



Immunocytochemistry/ Immunofluorescence - Anti-Survivin antibody (ab469)

ab469 at a 1/400 dilution staining HeLa cells by Immunocytochemistry. The antibody was incubated with the cells for 1 hour and then was detected using a Texas Red conjugated Goat anti-rabbit antibody.

This image is courtesy of an Abreview by **Sandrine Ruchaud** submitted on **30 March 2006**.



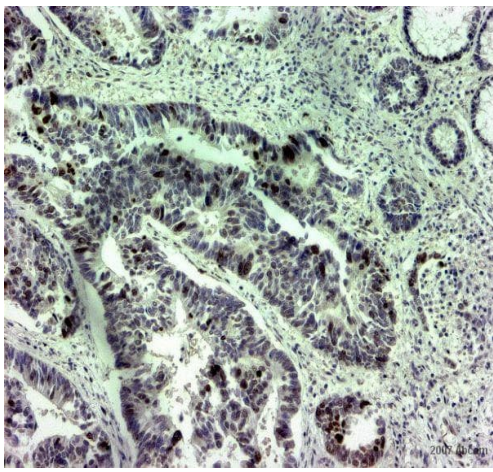
Western blot - Anti-Survivin antibody (ab469)

Anti-Survivin antibody (ab469) at 1 µg/ml + HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate at 30 µg

Developed using the ECL technique.

Predicted band size: 16 kDa

Exposure time: 1 minute



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Survivin antibody (ab469)

This image is courtesy of an Abreview submitted by Mr. Rudolf Jung.

Paraformaldehyde-fixed, paraffin-embedded human colon carcinoma tissue stained for Survivin using ab469 at 1/500 dilution in immunohistochemical analysis.

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