# Product datasheet

## Anti-Survivin antibody ab469

| ★★★★☆ 10 Abreviews | 128 References | 8 Images |

### Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Survivin antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit polyclonal to Survivin</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: ICC/IF, WB, IHC-P, ELISA, Flow Cyt, IP, RIP</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Mouse, Rat, Cow, Cat, Dog, Human</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Recombinant full length protein corresponding to Human Survivin. Database link: <a href="#">O15392</a></td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage buffer</td>
<td>pH: 7.40</td>
</tr>
<tr>
<td></td>
<td>Preservative: 0.05% Sodium azide</td>
</tr>
<tr>
<td></td>
<td>Constituents: 0.876% Sodium chloride, 99% Tris glycine</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
</tbody>
</table>

### Applications

Our [Abpromise guarantee](#) covers the use of ab469 in the following tested applications.
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.

Target

<table>
<thead>
<tr>
<th>Application</th>
<th>Abviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>⭐⭐⭐⭐⭐ (2)</td>
<td>1/250. See Abreview by William Moore; fix with formaldehyde.</td>
</tr>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐ (4)</td>
<td>Use a concentration of 1 µg/ml. Predicted molecular weight: 16 kDa. Found to work at 1/5000 dilution.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐🫠 (3)</td>
<td>Use a concentration of 0.5 µg/ml. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.</td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td></td>
<td>Use at an assay dependent concentration. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>IP</td>
<td>⭐⭐⭐⭐⭐🫠 (1)</td>
<td>Use at an assay dependent concentration. Recommended to use at 5-7 µg/ml.</td>
</tr>
<tr>
<td>RIP</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 19542185</td>
</tr>
</tbody>
</table>

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Western blot** - Anti-Survivin antibody (ab469)

All lanes: Anti-Survivin antibody (ab469) at 1 µg/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 µg 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.

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

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.

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.
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.

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

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

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

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