

## Anti-Survivin/BIRC5 Antibody Picoband®

Catalog Number: RP1052

### About Birc5

Survivin, also called baculoviral inhibitor of apoptosis repeat-containing 5 or BIRC5, is a protein that in humans encoded by the BIRC5 gene. Survivin is a member of the inhibitor of apoptosis (IAP) family. The survivin gene contains 4 exons. This gene is mapped to chromosome 17q25 by pulsed field gel electrophoresis and single- and 2-color FISH. The survivin protein functions as inhibitor caspase activation, thereby leading to negative regulation of apoptosis or programmed cell death. The survivin protein is expressed highly in most human tumours and fetal tissue, but is completely absent in terminally differentiated cells.

### Overview

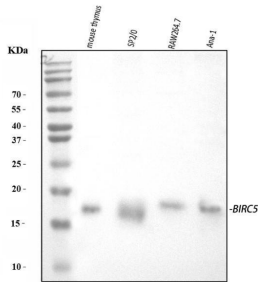
Product Name	Anti-Survivin/BIRC5 Antibody Picoband®
Reactive Species	Mouse
Description	Boster Bio Anti-Survivin/BIRC5 Antibody catalog # RP1052. Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O70201

### Technical Details

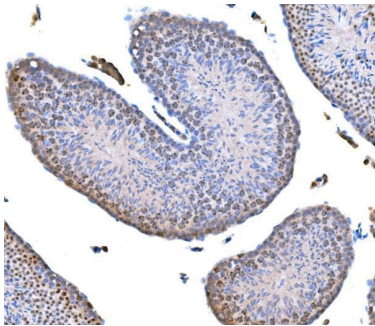
Immunogen	E.coli-derived mouse Survivin recombinant protein (Position: M1-A140). Mouse Survivin shares 85% and 91% amino acid (aa) sequence identity with human and rat Survivin, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Mouse Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Mous Flow Cytometry (Fixed), 1-3 ug/1x10 <sup>6</sup> cells, Mouse

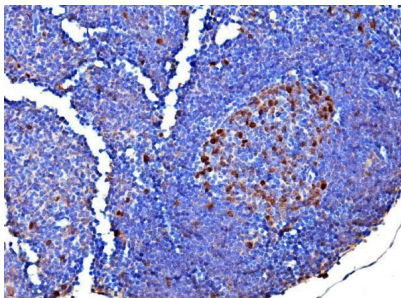
## Anti-Survivin/BIRC5 Antibody Picoband® (RP1052) Images



Western blot analysis of Survivin using anti-Survivin antibody (RP1052). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: mouse thymus tissue lysates, Lane 2: mouse SP2/0 whole cell lysates, Lane 3: mouse RAW264.7 whole cell lysates, Lane 4: mouse ANA-1 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Survivin antigen affinity purified polyclonal antibody (Catalog # RP1052) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Survivin at approximately 16 kDa. The expected band size for Survivin is at 16 kDa.

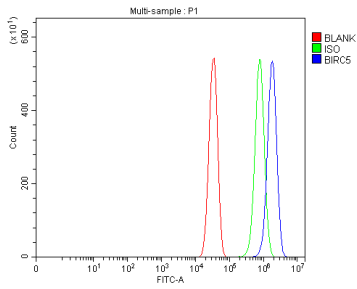


IHC analysis of Survivin using anti-Survivin antibody (RP1052). Survivin was detected in a paraffin-embedded section of mouse testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Survivin Antibody (RP1052) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of Survivin using anti-Survivin antibody (RP1052). Survivin was detected in a paraffin-embedded section of mouse lymph node tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Survivin Antibody (RP1052) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Flow Cytometry analysis of Neuro2a cells using anti-Survivin antibody (RP1052). Overlay histogram showing Neuro2a cells stained with RP1052 (Blue line). To facilitate intracellular staining, cells were fixed with 4%



paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Survivin Antibody (RP1052, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

## 9 Publications Citing This Product

1. PubMed ID: 25333250, Chen Xm, Xie Xb, Zhao Q, Wang F, Bai Y, Yin Jq, Jiang H, Xie Xi, Jia Q, Huang G. Mol Med Rep. 2015 Jan;11(1):105-12. Doi: 10.3892/Mmr.2014.2733. Epub 2014 Oct 21. Ampelopsin Induces Apoptosis By Regulating Multiple C-Myc/S-Phase Kinase-Associated ...
2. PubMed ID: 22773975, Cai N, Liu Nn, Zhao N, Wan C, Hu Yd, Zhou Y, Chen L. Int J Ophthalmol. 2012;5(3):293-6. Doi: 10.3980/J.Issn.2222-3959.2012.03.08. Epub 2012 Jun 18. Expressions Of Survivin And Vascular Endothelial Growth Factor In A Murine Model Of Proliferative R...
3. PubMed ID: 24519067, Zhang B, Lu Z, Hou Y, Hu J, Wang C. Tumour Biol. 2014 Jun;35(6):5401-7. Doi: 10.1007/S13277-014-1704-8. Epub 2014 Feb 12. The Effects Of Stat3 And Survivin Silencing On The Growth Of Human Bladder Carcinoma Cells.

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