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Anti-Survivin/BIRC5 Antibody Picoband™

Catalog Number: A00379

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. It 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. And this 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	Human, Mouse, Rat
Description	Boster Bio Anti-Survivin/BIRC5 Antibody Picoband™ catalog # A00379. Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
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	O15392

Technical Details

Immunogen	E. coli-derived human Survivin recombinant protein (Position: M1-D142). Human Survivin shares 84.3% and 83% amino acid (aa) sequence identity with mouse and rat Survivin, respectively.
Predicted Reactive Species	Chicken
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.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat ELISA , 0.1-0.5ug/ml, Human, -

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Anti-Survivin/BIRC5 Antibody Picoband™ (A00379) Images

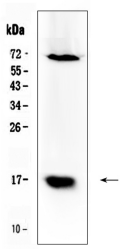

Figure 1. Western blot analysis of Survivin using anti-Survivin antibody (A00379).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: 293T whole cell lysates.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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 # A00379) 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 1:10000 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 16KD. The expected band size for Survivin is at 16KD.

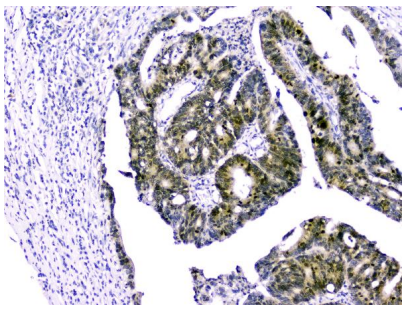

Figure 2. IHC analysis of Survivin using anti-Survivin antibody (A00379).
Survivin was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-Survivin Antibody (A00379) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

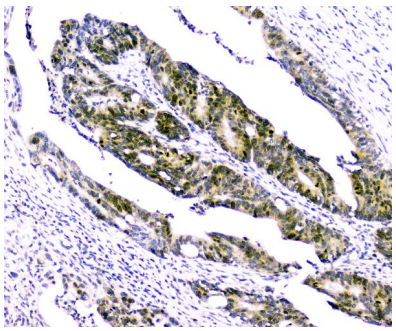

Figure 3. IHC analysis of Survivin using anti-Survivin antibody (A00379).
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Figure 4. Western blot analysis of Survivin using anti-Survivin antibody (A00379).

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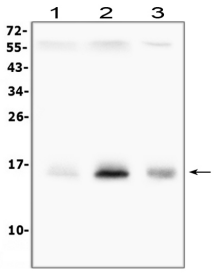

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: rat pc-12 whole cell lysate,
Lane 2: human K562 whole cell lysate,
Lane 3: mouse thymus tissue lysate.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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 # A00379) 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 1:10000 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 16KD. The expected band size for Survivin is at 16KD.

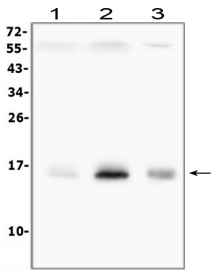

Figure 4. Western blot analysis of Survivin using anti-Survivin antibody (A00379).
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6 Publications Citing This Product

1. PubMed ID: 10.1038/emm.2006.28, Antisurvivin oligonucleotides inhibit growth and induce apoptosis in human medullary thyroid carcinoma cells

2. PubMed ID: 25333250, Chen Xm, Xie Xb, Zhao Q, Wang F, Bai Y, Yin Jq, Jiang H, Xie Xl, 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 ...

3. 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...

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