BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Annexin V/ANXA5 Antibody Picoband®

Catalog Number: PB9044

About ANXA5

Annexin A5 (or annexin V) is a cellular protein in the annexin group. It is mapped to 4q27. Annexin A5 has been proposed to play a role in the inhibition of blood coagulation by competing for phosphatidylserine binding sites with prothrombin and also to inhibit the activity of phospholipase A1. This protein is an anticoagulant protein, it can form a shield around negatively-charged phospholipid molecules, the formation of an annexin A5 shield blocks the entry of phospholipids into coagulation (clotting) reactions. And Annexin A5 can also act as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade.

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Overview

Product Name	Anti-Annexin V/ANXA5 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Annexin V/ANXA5 Antibody Picoband® catalog # PB9044. Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. 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, IF, IHC, ICC, 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	P08758

Technical Details

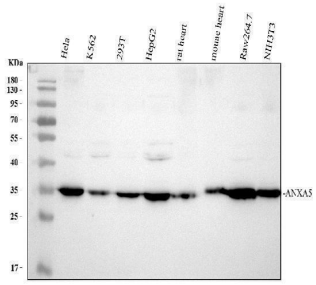
Immunogen	E.coli-derived human Annexin V recombinant protein (Position: A2-D320). Human Annexin V shares 94% and 92% amino acid (aa) sequences identity with mouse and rat Annexin V, respectively.

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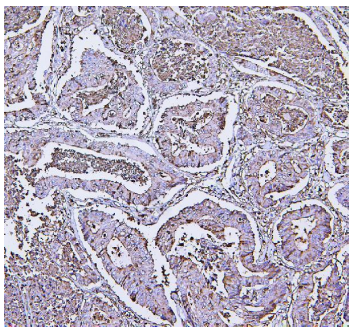
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10^6 cells, Human Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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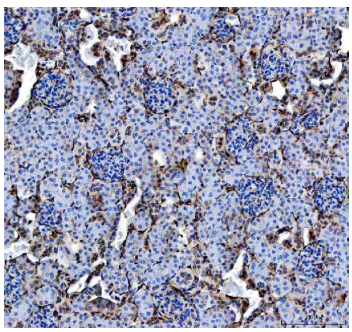
Anti-Annexin V/ANXA5 Antibody Picoband® (PB9044) Images



Western blot analysis of Annexin V/ANXA5 using anti-Annexin V/ANXA5 antibody (PB9044). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: rat heart tissue lysates, Lane 6: mouse heart tissue lysates, Lane 7: mouse RAW264.7 whole cell lysates, Lane 8: mouse NIH/3T3 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-Annexin V/ANXA5 antigen affinity purified polyclonal antibody (PB9044) 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 (Catalog # BA1054) at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for Annexin V/ANXA5 at approximately 36 kDa. The expected band size for Annexin V/ANXA5 is at 36 kDa.

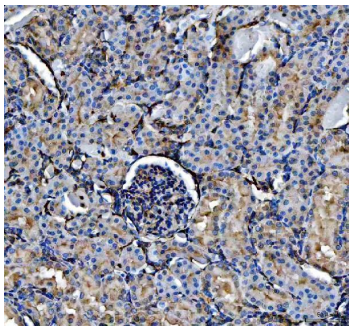


IHC analysis of Annexin V/ANXA5 using anti-Annexin V/ANXA5 antibody (PB9044). Annexin V/ANXA5 was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Annexin V/ANXA5 Antibody (PB9044) 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.

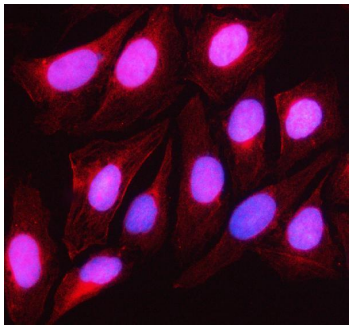


IHC analysis of Annexin V/ANXA5 using anti-Annexin V/ANXA5 antibody (PB9044). Annexin V/ANXA5 was detected in a paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Annexin V/ANXA5 Antibody (PB9044) 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.

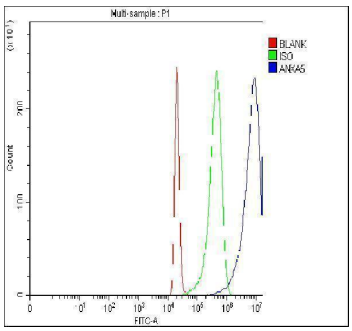
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IHC analysis of Annexin V/ANXA5 using anti-Annexin V/ANXA5 antibody (PB9044). Annexin V/ANXA5 was detected in a paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Annexin V/ANXA5 Antibody (PB9044) 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.



IF analysis of Annexin V/ANXA5 using anti-Annexin V/ANXA5 antibody (PB9044). Annexin V/ANXA5 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-Annexin V/ANXA5 Antibody (PB9044) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of 293T cells using anti-Annexin V/ANXA5 antibody (PB9044). Overlay histogram showing 293T cells stained with PB9044 (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-Annexin V/ANXA5 Antibody (PB9044, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) 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: 10.3390/md13041798, Morphological and Proteomic Analyses Reveal that Unsaturated Guluronate Oligosaccharide Modulates Multiple Functional Pathways in Murine Macrophage RAW264.7 Cells

2. PubMed ID: 10.3892/ol.2012.959, Annexin A1, A2, A4 and A5 play important roles in breast cancer, pancreatic cancer and laryngeal carcinoma,alone and/or synergistically

3. PubMed ID: 25850883, Sun X, Kang H, Yao Y, Chen H, Sun L, An W, Jiang E, Wang S, Hu X. Anticancer Drugs. 2015 Jul;26(6):641-8. Doi: 10.1097/Cad.0000000000000229. Dehydrocostus Lactone Suppressed The Proliferation, Migration, And Invasion Of Colorectal Carcinoma Throug...

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