

## Anti-Annexin VII/ANXA7 Antibody Picoband®

Catalog Number: PA2076

### About ANXA7

ANXA7 (Annexin A7), also known as ANX7 or SNX, is a protein that in humans is encoded by the ANXA7 gene. Annexin VII is a member of the annexin family of calcium-dependent phospholipid binding proteins. Shirvan et al. (1994) isolated genomic clones of the ANXA7 gene and assigned the gene to 10q21.1-q21.2 by study of somatic cell hybrids and by in situ hybridization. Srivastava et al. (2001) concluded that the ANX7 gene exhibits many biologic and genetic properties expected of a tumor suppressor gene and may play a role in prostate cancer progression. Caohuy et al. (1996) present experimental evidence, based on studies of recombinant human ANXA7 and isolated bovine chromaffin cells, that ANXA7 is a Ca (2+)-dependent GTP binding protein. ANXA7 was active in a chromaffin granule aggregation assays in the presence of Ca (2+) and GTP, and was deactivated upon GTP hydrolysis.

### Overview

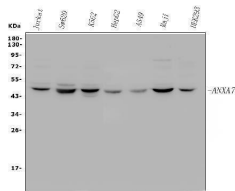
Product Name	Anti-Annexin VII/ANXA7 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Annexin VII/ANXA7 Antibody catalog # PA2076. Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that 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 antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P20073

### Technical Details

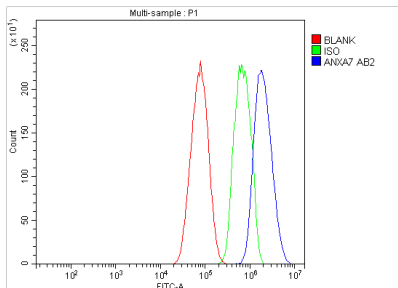
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Annexin VII, different from the related mouse and rat sequences by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
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 Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Immunocytochemistry/Immunofluorescence, 5ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10 <sup>6</sup> cells, Human

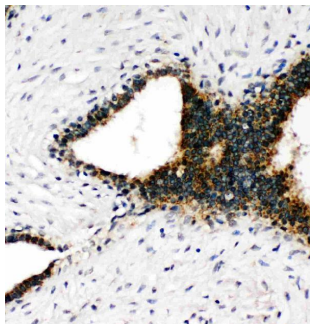
## Anti-Annexin VII/ANXA7 Antibody Picoband® (PA2076) Images



Western blot analysis of ANXA7 using anti-ANXA7 antibody (PA2076). 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: human Jurkat whole cell lysates, Lane 2: human SW620 whole cell lysates, Lane 3: human K562 whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: human A549 whole cell lysates, Lane 6: human Raji whole cell lysates, Lane 7: human HEK293 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-ANXA7 antigen affinity purified polyclonal antibody (Catalog # PA2076) 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 ANXA7 at approximately 50 kDa. The expected band size for ANXA7 is at 53 kDa.

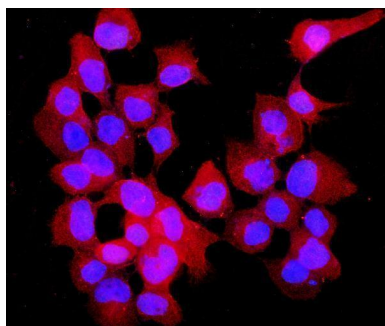


Flow Cytometry analysis of HepG2 cells using anti-ANXA7 antibody (PA2076). Overlay histogram showing HepG2 cells stained with PA2076 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ANXA7 Antibody (PA2076, 1ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC analysis of ANXA7 using anti-ANXA7 antibody (PA2076). ANXA7 was detected in a paraffin-embedded section of Human Mammary 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 1 ug/ml rabbit anti-ANXA7 Antibody (PA2076) 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.

IF analysis of ANXA7 using anti- ANXA7 antibody (PA2076). ANXA7 was detected in immunocytochemical section of



A431 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 5ug/mL rabbit anti- ANXA7 Antibody (PA2076) overnight at 4°C. DyLight®594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:100 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.

## 1 Publications Citing This Product

1. PubMed ID: 21432772, Zhou Sn, Li Cs, Liu Lq, Li Y, Wang Xf, Shen L. *Histol Histopathol.* 2011 May;26(5):571-9. Increased Expression Of Annexin A7 In Temporal Lobe Tissue Of Patients With Refractory Epilepsy.

Visit [bosterbio.com/anti-annexin-vii-antibody-pa2076-boster.html](http://bosterbio.com/anti-annexin-vii-antibody-pa2076-boster.html) to see all 1 publications.

## Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-Annexin VII/ANXA7 Antibody

For Research Use Only. Not for use in diagnostic procedures.