

## Anti-Annexin A1/ANXA1 Antibody

Catalog Number: PA1006

### About ANXA1

Annexin I, also known as lipocortin I (Lipo1), belongs to the family of annexins. These proteins are thought to control the biosynthesis of the potent mediators of inflammation, prostaglandins and leukotrienes. In two lipocortins (I and II) a short amino-terminal sequence distinct from the core structure has potential regulatory functions which are dependent on its phosphorylation state. The gene in the mouse encodes a protein of 346 amino acid residues. Mouse Lipo1 gene spans about 17 kb and is divided into 13 exons. Annexin I gene, mapped to 9q11-q22, is located on mouse chromosome 19. Annexin I acts through the formyl peptide receptor on human neutrophils. Peptides derived from the unique N-terminal domain of annexin I serve as FPR ligands and trigger different signaling pathways in a dose-dependent manner.

### Overview

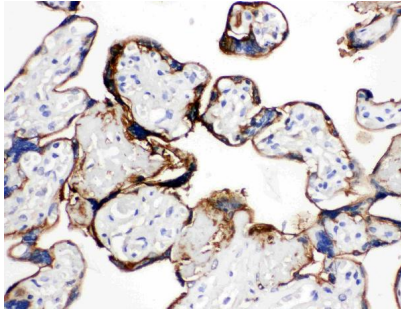
Product Name	Anti-Annexin A1/ANXA1 Antibody
Reactive Species	Human, Monkey
Description	Boster Bio Anti-Annexin A1/ANXA1 Antibody catalog # PA1006. Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Monkey.
Application	Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal FN-15
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</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	P04083

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Annexin A1.
Predicted Reactive Species	Bovine
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Monkey</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, By Heat</p> <p>Immunocytochemistry/Immunofluorescence, 5ug/ml, Human</p> <p>Flow Cytometry, 1-3ug/1x10<sup>6</sup> cells, Human</p>

## Anti-Annexin A1/ANXA1 Antibody (PA1006) Images



Anti-Annexin A1 antibody, PA1006, IHC(P)  
IHC(P): Human Placenta Tissue

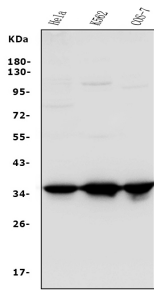
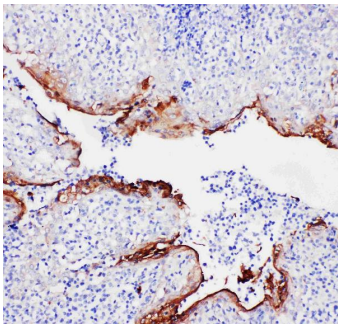


Figure 1. Western blot analysis of Annexin A1/ANXA1 using anti-Annexin A1/ANXA1 antibody (PA1006). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.

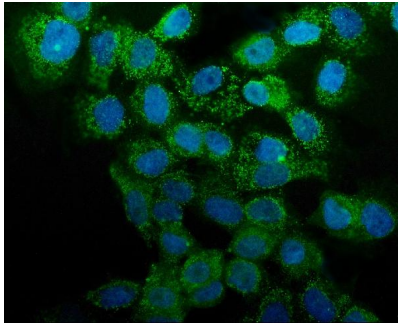
Lane 1: human HeLa whole cell lysates,  
Lane 2: human K562 whole cell lysates,  
Lane 3: monkey COS-7 whole cell lysates.

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-Annexin A1/ANXA1 antigen affinity purified polyclonal antibody (Catalog # PA1006) 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 Annexin A1/ANXA1 at approximately 39KD. The expected band size for Annexin A1/ANXA1 is at 39KD.



Anti-Annexin A1 antibody, PA1006, IHC(P)  
IHC(P): Human Tonsil Tissue

Figure 4. IF analysis of Annexin A1/ANXA1 using anti-Annexin A1/ANXA1 antibody (PA1006). Annexin A1/ANXA1 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-Annexin A1/ANXA1 Antibody (PA1006) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) 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.

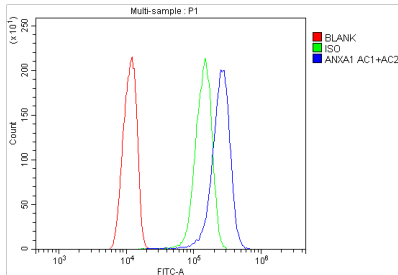


Figure 5. Flow Cytometry analysis of A431 cells using anti-Annexin A1/ANXA1 antibody (PA1006). Overlay histogram showing A431 cells stained with PA1006 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Annexin A1/ANXA1 Antibody (PA1006, 1ug/1x10<sup>6</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.

## 6 Publications Citing This Product

1. PubMed ID: 10.1038/s41598-020-77902-5, Defective membrane repair machinery impairs survival of invasive cancer cells
2. PubMed ID: 10.1016/j.bbamcr.2016.06.003, Membrane repair of human skeletal muscle cells requires Annexin-A5
3. PubMed ID: 23587191, Annexin A1 protein regulates the expression of PMVEC cytoskeletal proteins in CBDL rat serum-induced pulmonary microvascular remodeling

Visit [bosterbio.com/anti-annexin-a1-antibody-pa1006-boster.html](https://bosterbio.com/anti-annexin-a1-antibody-pa1006-boster.html) to see all 6 publications.

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