

Basic Information

Product Name	Anti-Annexin V/ANXA5 Antibody	
Gene Name	ANXA5	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF, FCM	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
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.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	36 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

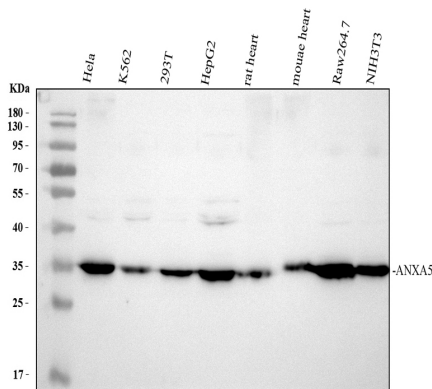
Background Information

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.

Reference

Anti-Annexin V/ANXA5 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of Annexin V/ANXA5 using anti-Annexin V/ANXA5 antibody (PB9044). 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,

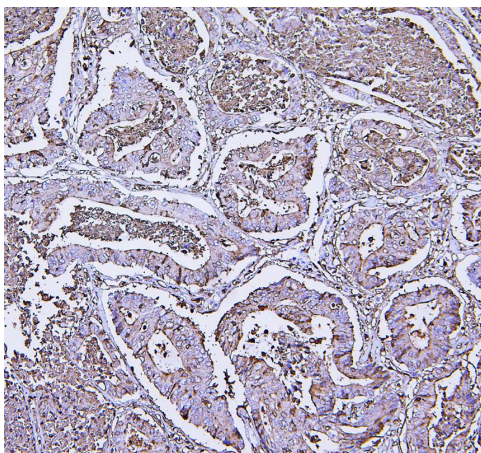
Lane 5: rat heart tissue lysates,

Lane 6: mouse heart tissue lysates,

Lane 7: mouse RAW264.7 whole cell lysates,

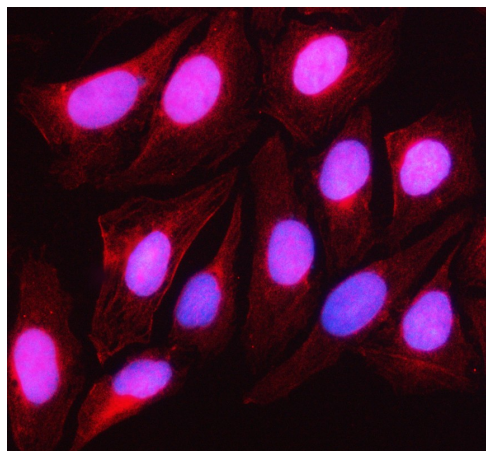
Lane 8: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Annexin V/ANXA5 antiA03957-Aen affinity purified polyclonal antibody (PB9044) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). 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.



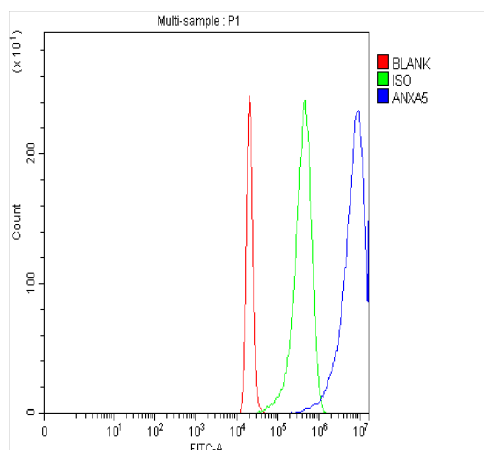
IHC analysis of Annexin V/ANXA5 using anti-Annexin V/ANXA5 antibody (PB9044).

Annexin V/ANXA5 was detected in a paraffin-embedded section of human colon cancer tissue. The tissue section was incubated with rabbit anti-Annexin V/ANXA5 Antibody (PB9044) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) 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. The section was incubated with rabbit anti-Annexin V/ANXA5 Antibody (PB9044) at a dilution of 1:100. Cy3-conjugated Anti-rabbit IgG Secondary Antibody (red)(Catalog#BA1032) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



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) at 1:100 dilution for 30 min at 20°C.

DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.