

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	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Annexin V, identical to the related rat and mouse sequences.	
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 (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.	

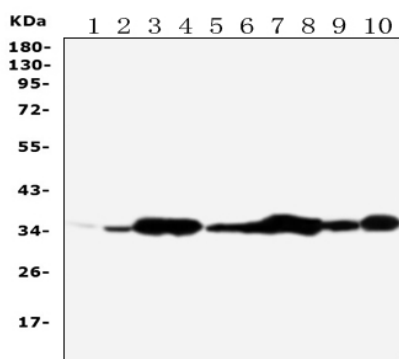
Storage

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

Background Information

Annexin V also known as endonexin II (ENX2), or placental protein 4 (PP4). Endonexin II is a member of the family of Ca²⁺-dependent phospholipid binding proteins, known as annexins. It binds to the phospholipids that are preferentially located on the cytosolic face of the plasma membrane. It has a relative molecular weight of about 35,000. The gene lies on mouse chromosome 3 in close linkage with the fibroblast growth factor 2 (basic) gene and is syntenic with other genes known to have orthologous counterparts on human chromosome 4q. The PP4 cDNA encoded a protein of 320 amino acid residues. A single mRNA, approximately 1.6 kb long, was found to be expressed in human cell lines and placenta. PP4 is an anticoagulant protein that acts as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade.

Selected Validation Data



Western blot analysis of Annexin V/ANXA5 using anti-Annexin V/ANXA5 antibody (BA0644). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: Rat brain tissue lysates,

Lane 2: Rat skeletal muscle tissue lysates,

Lane 3: Rat ovary tissue lysates,

Lane 4: Rat lung tissue lysates,

Lane 5: MCF-7 whole cell lysates,

Lane 6: SMMC whole cell lysates,

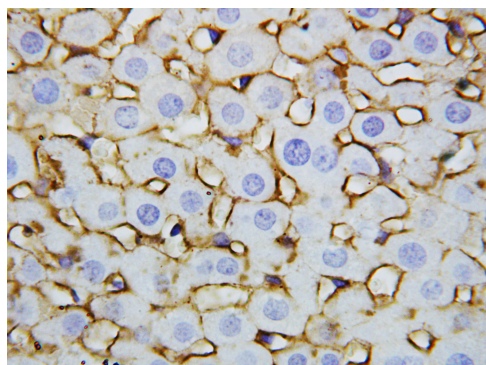
Lane 7: A549 whole cell lysates,

Lane 8: JURKAT whole cell lysates,

Lane 9: SGC whole cell lysates,

Lane 10: HT1080 whole cell lysates.

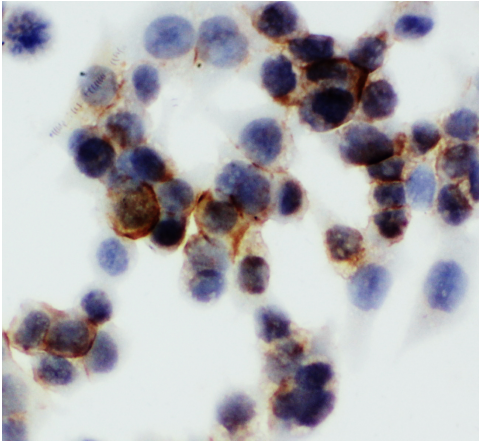
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Annexin V/ANXA5 antigen affinity purified polyclonal antibody (BA0644) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal 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 (BA0644).

Annexin V/ANXA5 was detected in a paraffin-embedded section of rat liver tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody.

The tissue section was incubated with rabbit anti-Annexin V/ANXA5 Antibody (BA0644) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



ICC analysis of Annexin V/ANXA5 using anti- Annexin V/ANXA5 antibody (BA0644).

Annexin V/ANXA5 was detected in an immunocytochemical section of HCT116 cells. The section was incubated with rabbit anti-Annexin V/ANXA5 Antibody (BA0644) at a dilution of 1:100. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.