



## Rabbit Anti-Annexin V antibody

SL0450R

<b>Product Name:</b>	Annexin V
<b>Chinese Name:</b>	重组膜粘连蛋白5抗体
<b>Alias:</b>	Anchorin CI; Annexin 5; Annexin A5; Annexin V; Annexin5; AnnexinA5; AnnexinV; ANX 5; ANX A5; ANX5; ANXA5; Calphobindin I; CBP I; CBP-I; Endonexin II; ENX 2; ENX2; Lipocortin V; PAP I; Placental anticoagulant protein I; PAP-I; Placental anticoagulant protein 4; PP 4; PP4; Thromboplastin inhibitor; VAC alpha; Vascular anticoagulant alpha; Vascular anticoagulant-alpha; ANXA5_HUMAN; Anchorin CII; Annexin-5; VAC-alpha.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/testIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	36kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	recombine human Annexin V:
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The protein encoded by this gene belongs to the annexin family of calcium-dependent phospholipid binding proteins some of which have been implicated in membrane-related

events along exocytotic and endocytotic pathways. Annexin 5 is a phospholipase A2 and protein kinase C inhibitory protein with calcium channel activity and a potential role in cellular signal transduction, inflammation, growth and differentiation. Annexin 5 has also been described as placental anticoagulant protein I, vascular anticoagulant-alpha, endonexin II, lipocortin V, placental protein 4 and anchorin CII. The gene spans 29 kb containing 13 exons, and encodes a single transcript of approximately 1.6 kb and a protein product with a molecular weight of about 35 kDa. [provided by RefSeq, Jul 2008].

**Function:**

Calcium/phospholipid-binding protein which promotes membrane fusion and is involved in exocytosis.

**Subunit:**

Interacts with PDCD6.

**Post-translational modifications:**

S-nitrosylation is induced by interferon-gamma and oxidatively-modified low-density lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex.

**DISEASE:**

Defects in ANXA5 are associated with susceptibility to pregnancy loss, recurrent, type 3 (RPRGL3) [MIM:614391]. A common complication of pregnancy, resulting in spontaneous abortion before the fetus has reached viability. The term includes all miscarriages from the time of conception until 24 weeks of gestation. Recurrent pregnancy loss is defined as 3 or more consecutive spontaneous abortions.

**Similarity:**

Belongs to the annexin family.  
Contains 4 annexin repeats.

**SWISS:**

P08758

**Gene ID:**

308

**Database links:**

[Entrez Gene: 308](#)Human

[Entrez Gene: 11747](#)Mouse

[Entrez Gene: 25673](#)Rat

[Oimim: 131230](#)Human

[SwissProt: P08758](#)Human

[SwissProt: P48036](#)Mouse

[SwissProt: P14668](#)Rat

[Unigene: 480653](#)Human

[Unigene: 1620](#)Mouse

[Unigene: 3318](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Annexin-V是一种分子量为35~36KD的Ca<sup>2+</sup>依赖性磷脂Binding protein, 能与PS高亲和力特异性结合。

将Annexin-V进行荧光素(FITC、PE)或biotin标记, 以标记了的Annexin-V作为荧光探针, 利用流式细胞仪或荧光显微镜可检测Apoptosis的发生。

其意义:检测早期凋亡的细胞, 同时可区分活细胞和坏死细胞

磷脂酰丝氨酸(Phosphatidylserine, PS)正常位于The cell

membrane的内侧, 但在Apoptosis的早期, PS可从The cell

membrane的内侧翻转到The cell membrane的表面, 暴露在细胞外环境中。

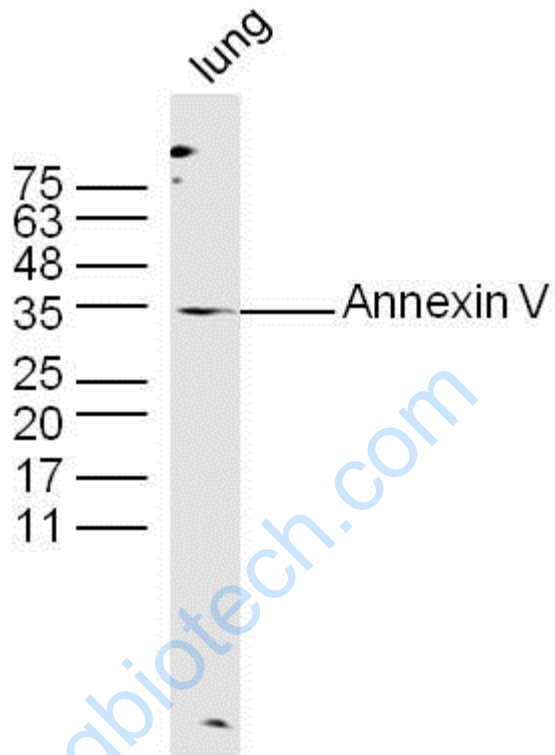
碘化丙啶(propidine iodide, PI)是一种核酸染料, 它不能透过完整的The cell

membrane, 但在凋亡中晚期的细胞和死细胞, PI能够透过The cell

membrane而使The nucleus红染。因此将Annexin-

V与PI匹配使用, 就可以将凋亡早晚期的细胞以及死细胞区分开来。

Picture:



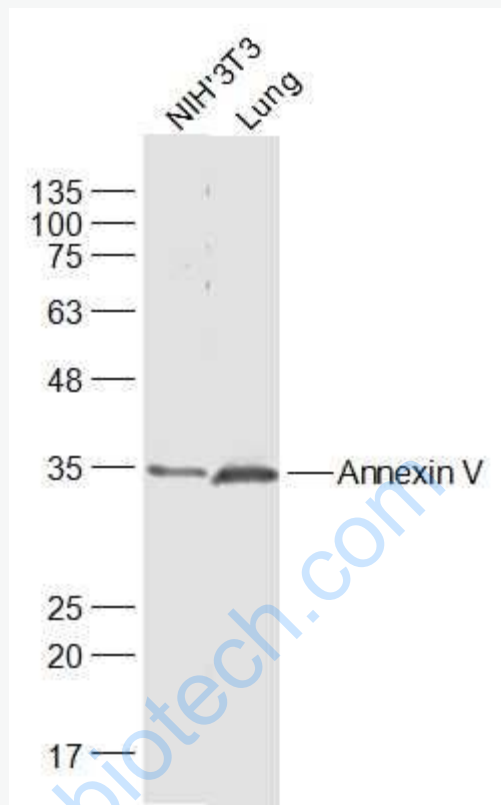
Sample: Lung (Mouse) Lysate at 40 ug

Primary: Anti- Annexin V (SL0450R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 36 kD

Observed band size: 36 kD



Sample:

NIH/3T3(Mouse) Cell Lysate at 30 ug

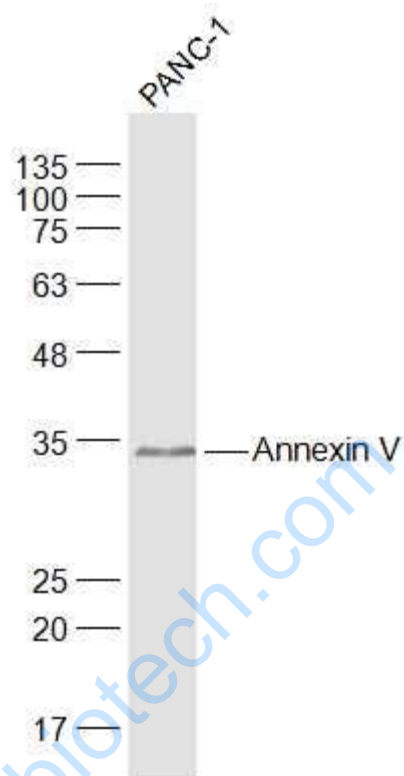
Lung (Mouse) Lysate at 40 ug

Primary: Anti-Annexin V? (SL0450R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 36 kD

Observed band size: 35 kD



Sample:

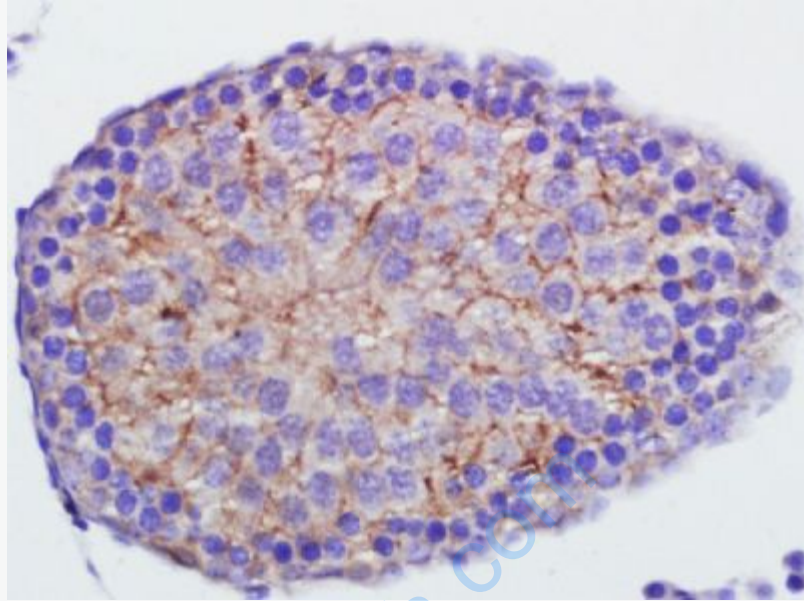
PANC-1(Human) Cell Lysate at 30 ug

Primary: Anti-Annexin V? (SL0450R) at 1/1000 dilution

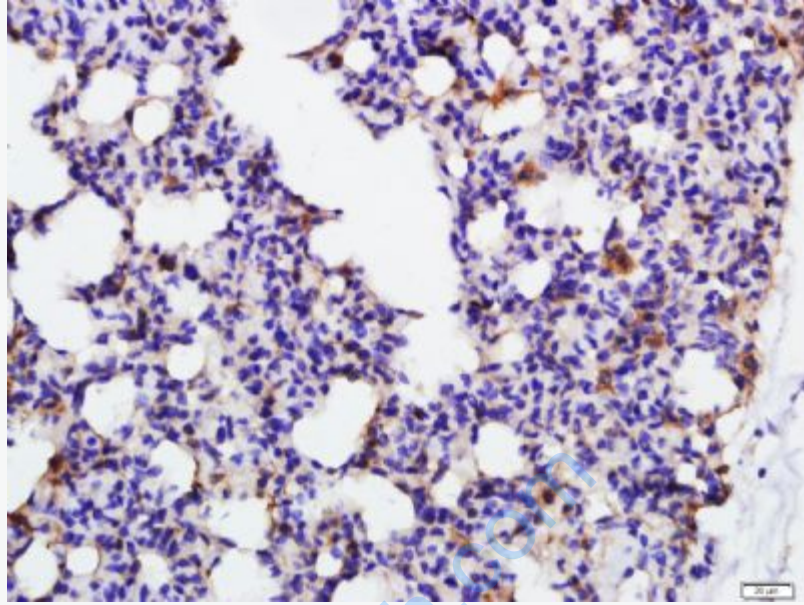
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 36 kD

Observed band size: 35 kD

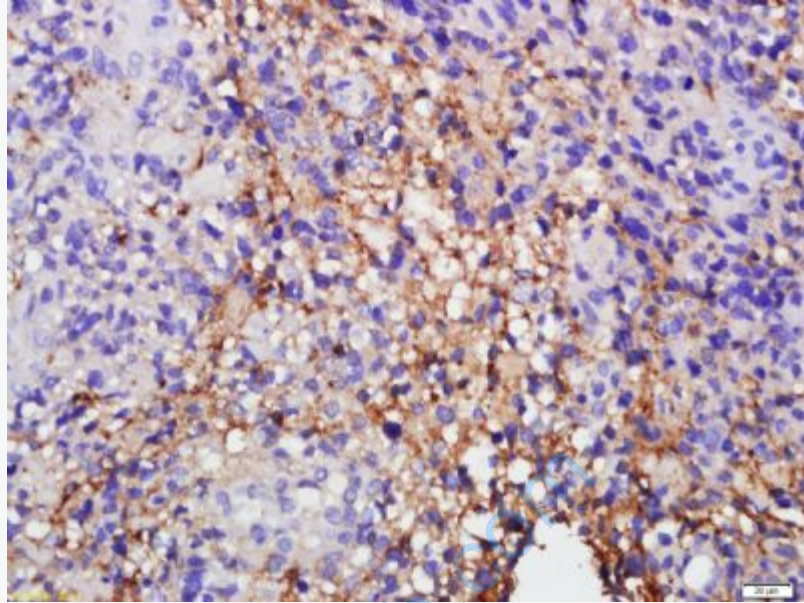


Tissue/cell: rat testis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-Annexin V Polyclonal Antibody, Unconjugated(SL0450R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-Annexin V Polyclonal Antibody, Unconjugated(SL0450R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

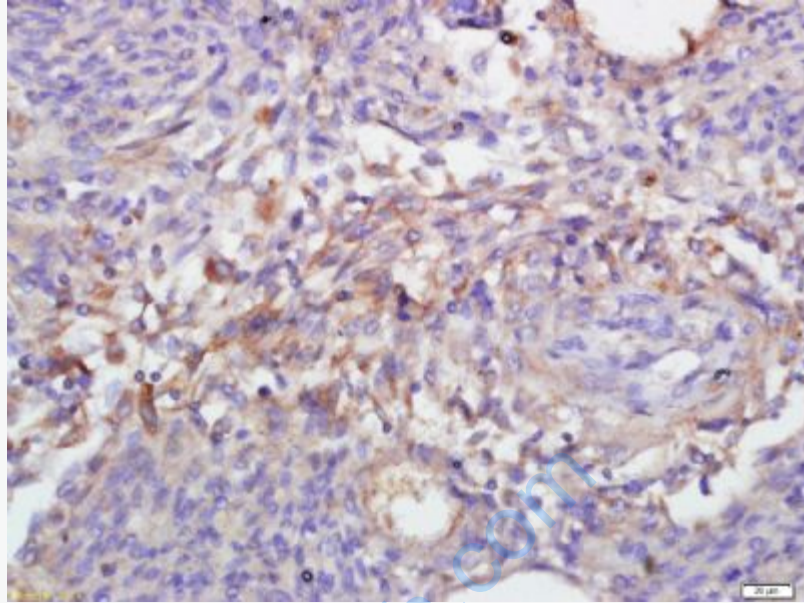




Tissue/cell: human Neurological glioblastoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

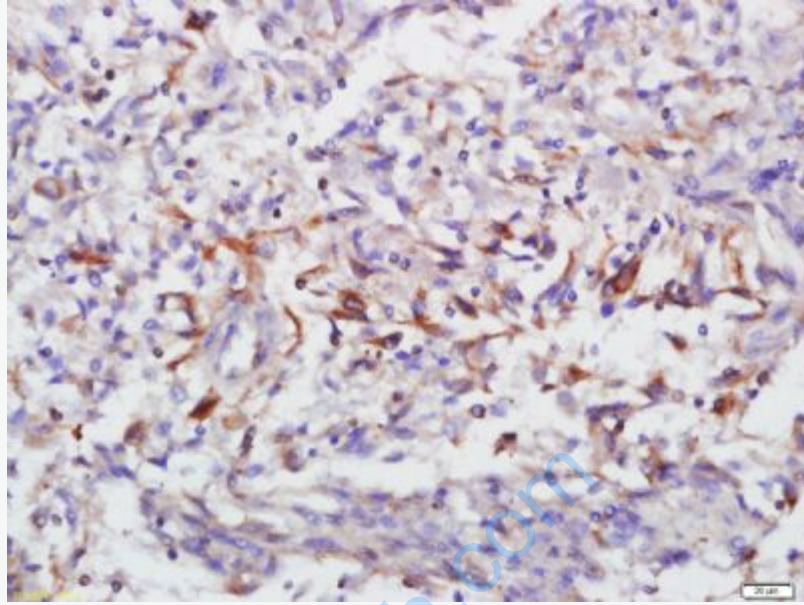
Incubation: Anti-Annexin V Polyclonal Antibody, Unconjugated(SL0450R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

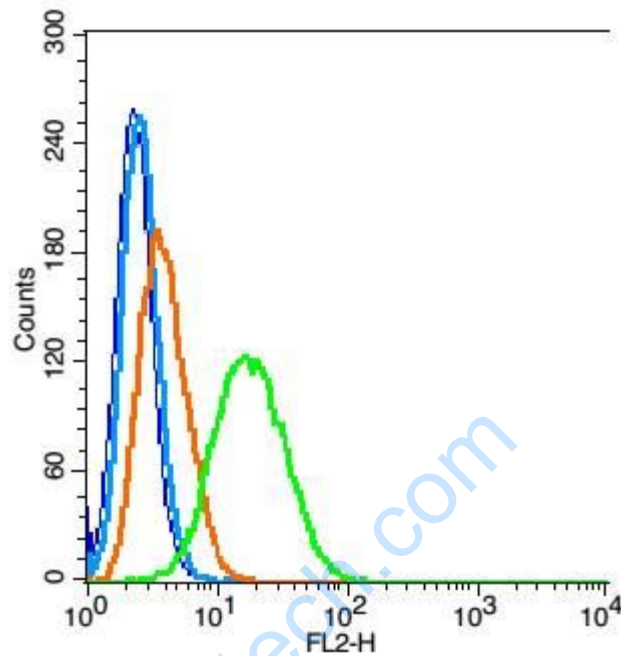
Incubation: Anti-Annexin V Polyclonal Antibody, Unconjugated(SL0450R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Annexin V Polyclonal Antibody, Unconjugated(SL0450R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: RSC96 (blue). Primary Antibody: Rabbit Anti-Annexin V antibody (SL0450R), Dilution: 1  $\mu$ g in 100  $\mu$ L 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG (orange), used under the same conditions; Secondary Antibody: Goat anti-rabbit IgG-PE (white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA. Protocol The cells were fixed with 2% paraformaldehyde (10 min), then permeabilized with 90% ice-cold methanol for 30 min on ice. Antibody (SL0450R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 10% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody of bs-0450R at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.