

Rabbit Anti-Annexin V antibody

SL0450R

Product Name Annexin V

Chinese Name 膜粘连蛋白 5 抗体

Alias

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.

Research Area

Apoptosis

Immunogen Species

Rabbit

Clonality

Polyclonal

React Species

Human, Mouse, Rat,

Applications

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 μ g
/test (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight

36kDa

Cellular localization

The cell membrane

Form

Liquid

Concentration

1mg/ml

immunogen

recombine human Annexin V

Lsotype

IgG

Purification

affinity purified by Protein A

Buffer Solution

1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage

Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

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

PubMed

[PubMed](#)

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.

Product Detail

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

[Omim: 131230](#) Human

[SwissProt: P08758](#) Human

[SwissProt: P48036](#) Mouse

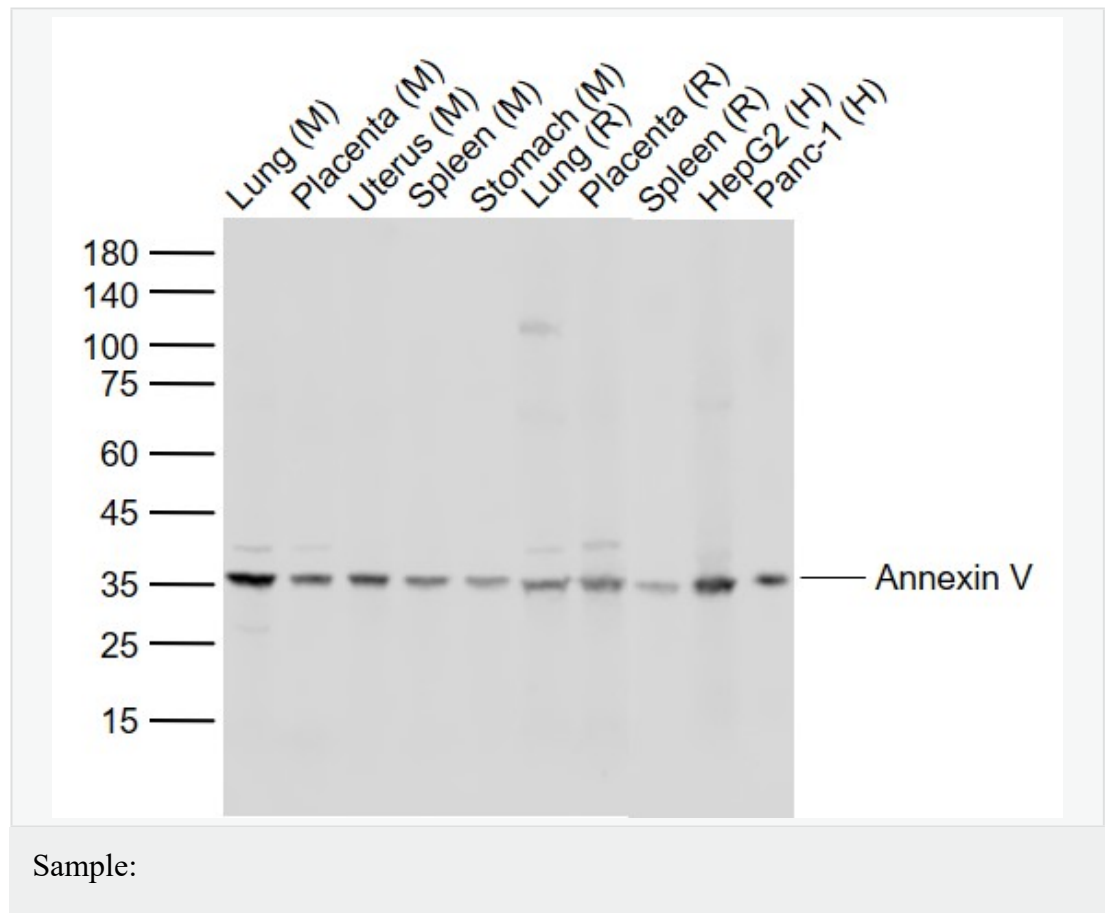
[SwissProt: P14668](#) Rat

[Unigene: 480653](#) Human

[Unigene: 1620](#) Mouse

[Unigene: 3318](#) Rat

**Product
Picture**



Lane 1: Mouse Lung tissue lysates

Lane 2: Mouse Placenta tissue lysates

Lane 3: Mouse Uterus tissue lysates

Lane 4: Mouse Spleen tissue lysates

Lane 5: Mouse Stomach tissue lysates

Lane 6: Rat Lung tissue lysates

Lane 7: Rat Placenta tissue lysates

Lane 8: Rat Spleen tissue lysates

Lane 9: Human HepG2 cell lysates

Lane 10: Human Panc-1 cell lysates

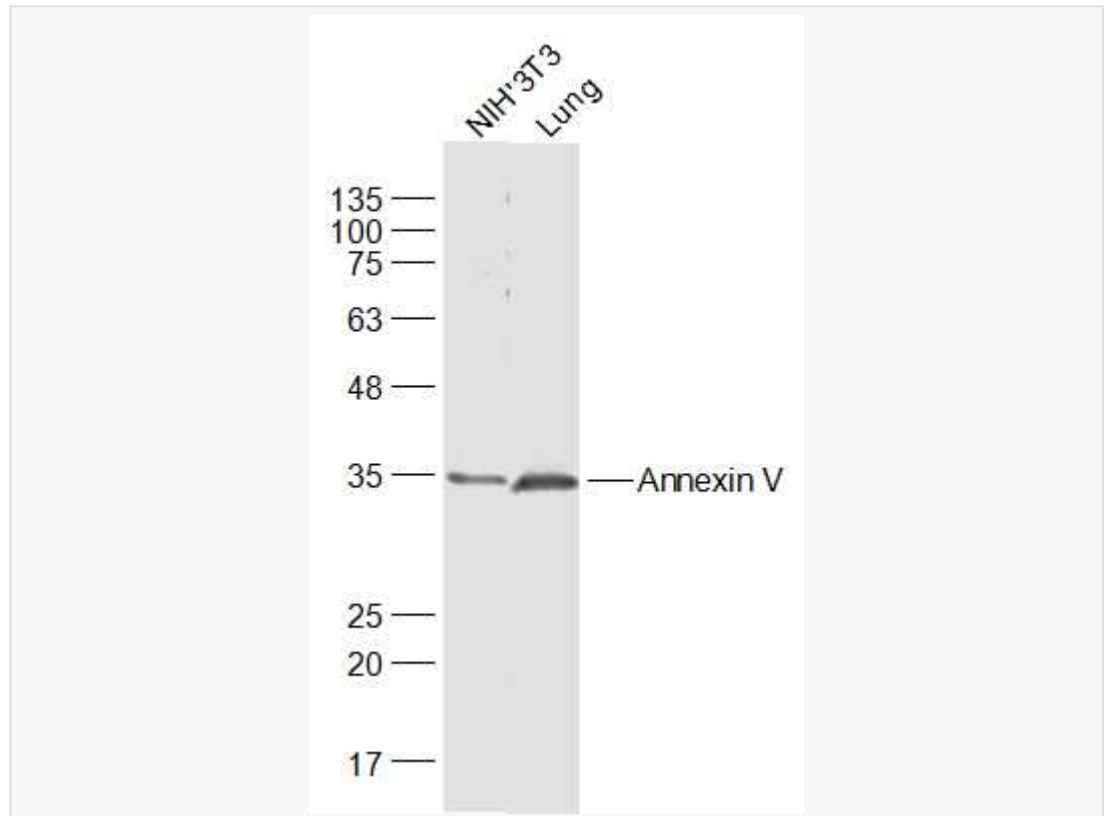
Primary:

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: 36 kD



Sample:

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

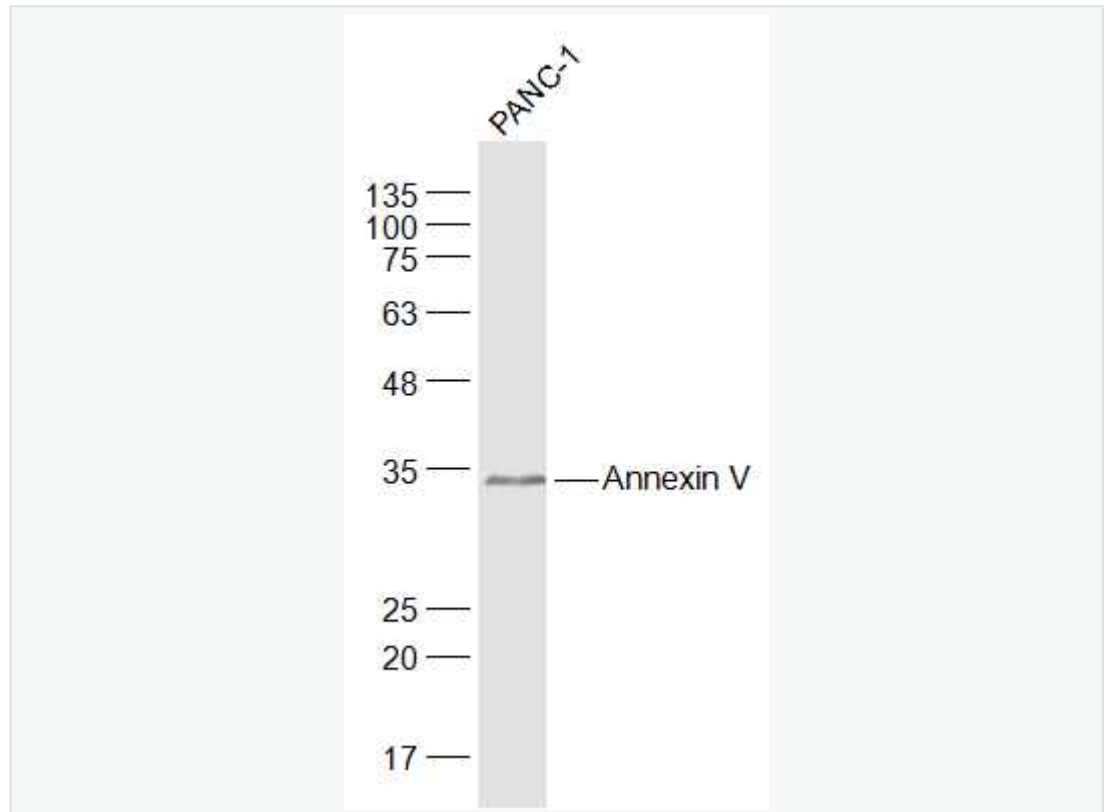
Lung (Mouse) Lysate at 40 ug

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:

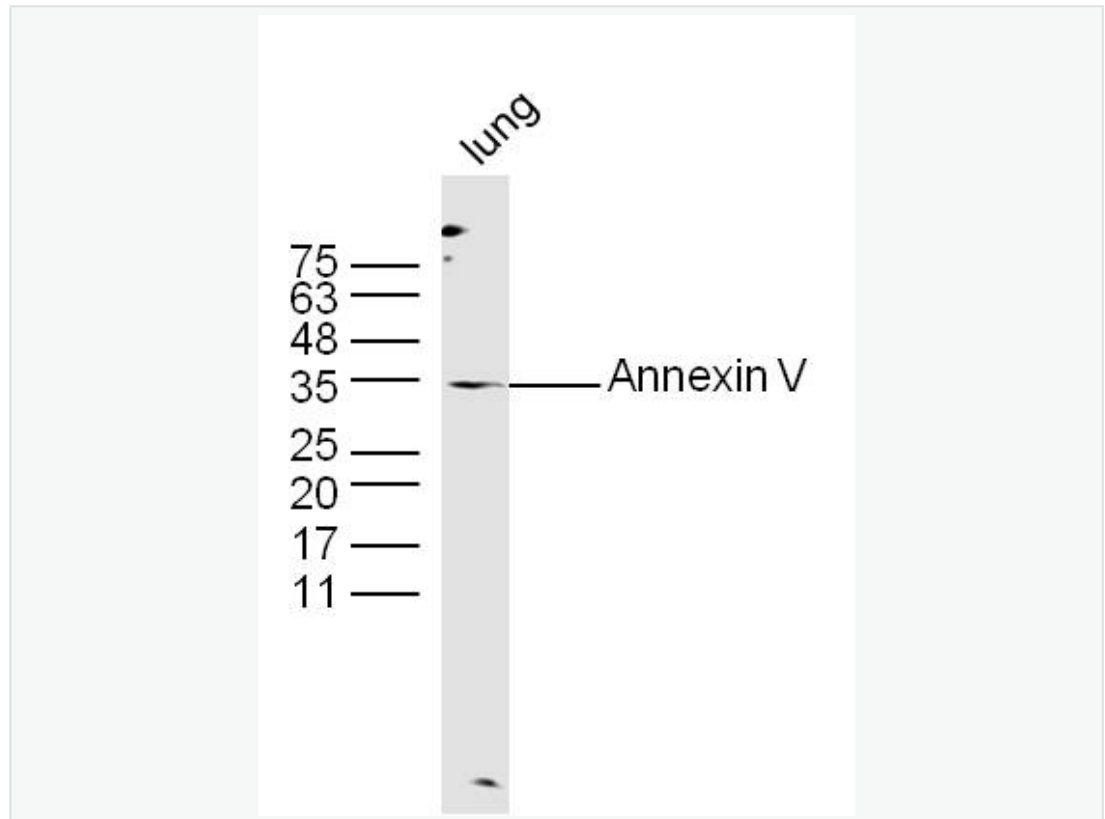
PANC-1(Human) Cell Lysate at 30 ug

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



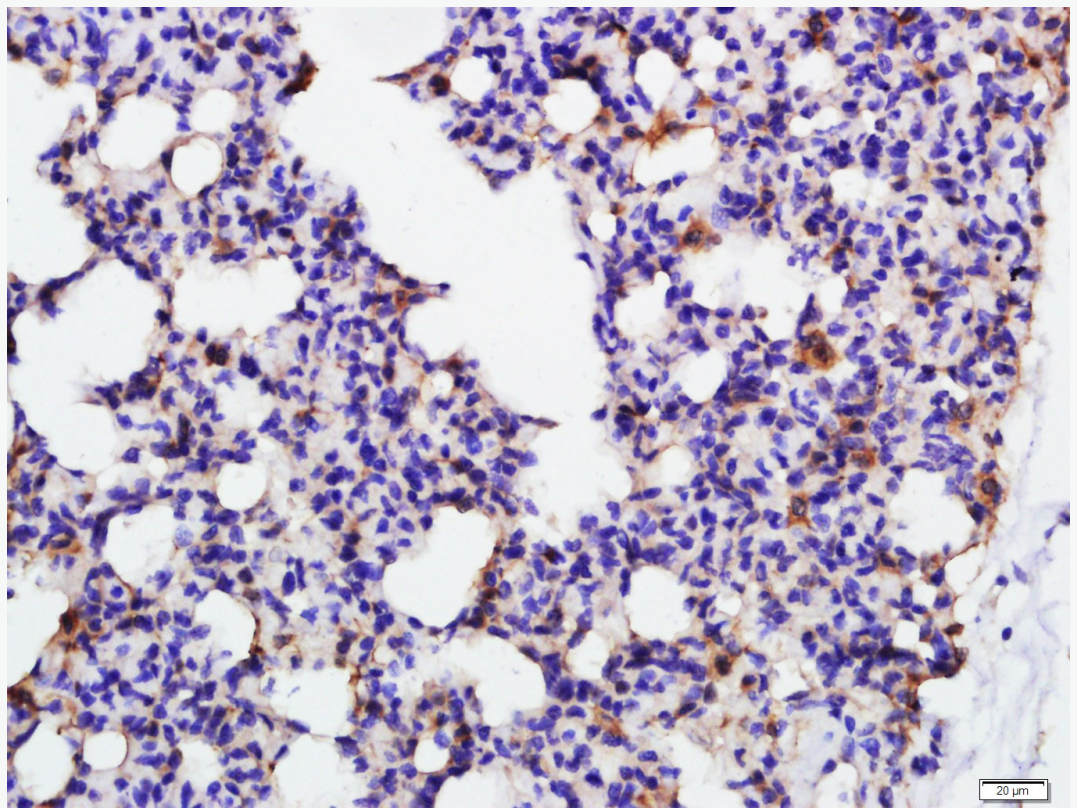
Sample: Lung (Mouse) Lysate at 40 ug

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

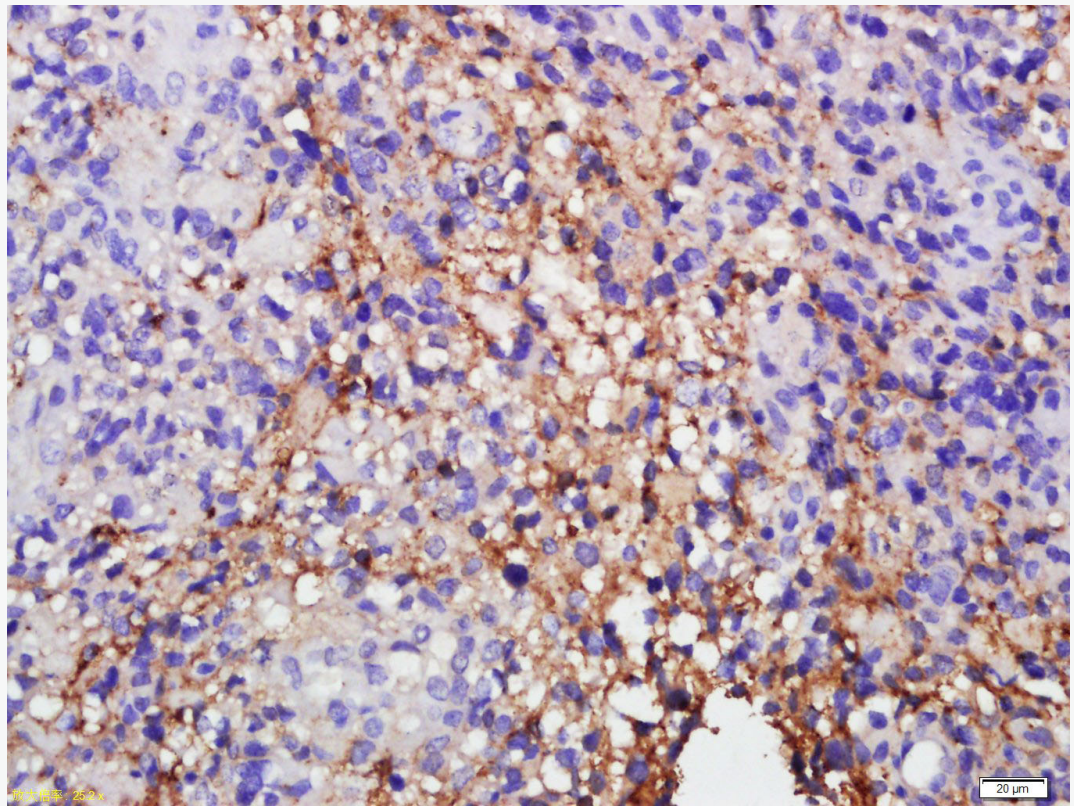
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 36 kD

Observed band size: 36 kD



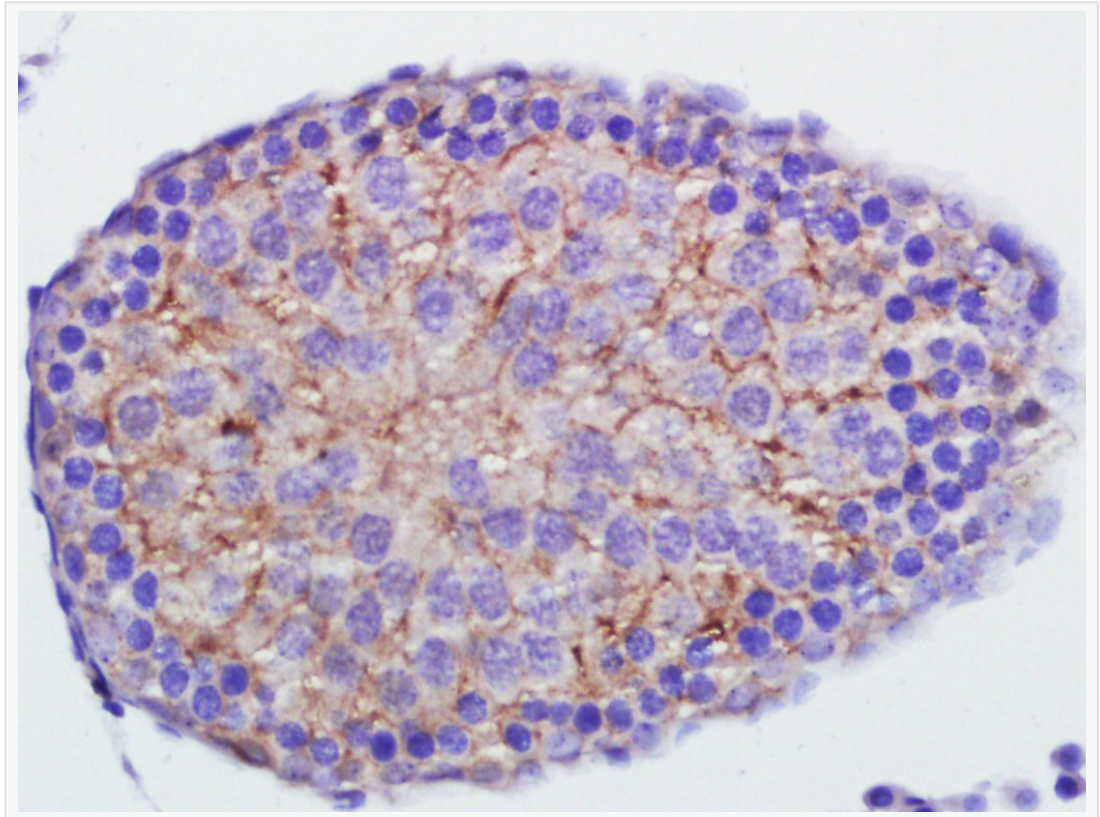
Tissue/cell: rat lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer
(normal goat serum,C-0005) at 37← for 20 min;
Incubation: Anti-Annexin V Polyclonal Antibody, Unconjugated(SL0450R)
1:500, overnight at 42.C, followed by conjugation to the secondary
antibody(SP-0023) and DAB(C-0010) staining



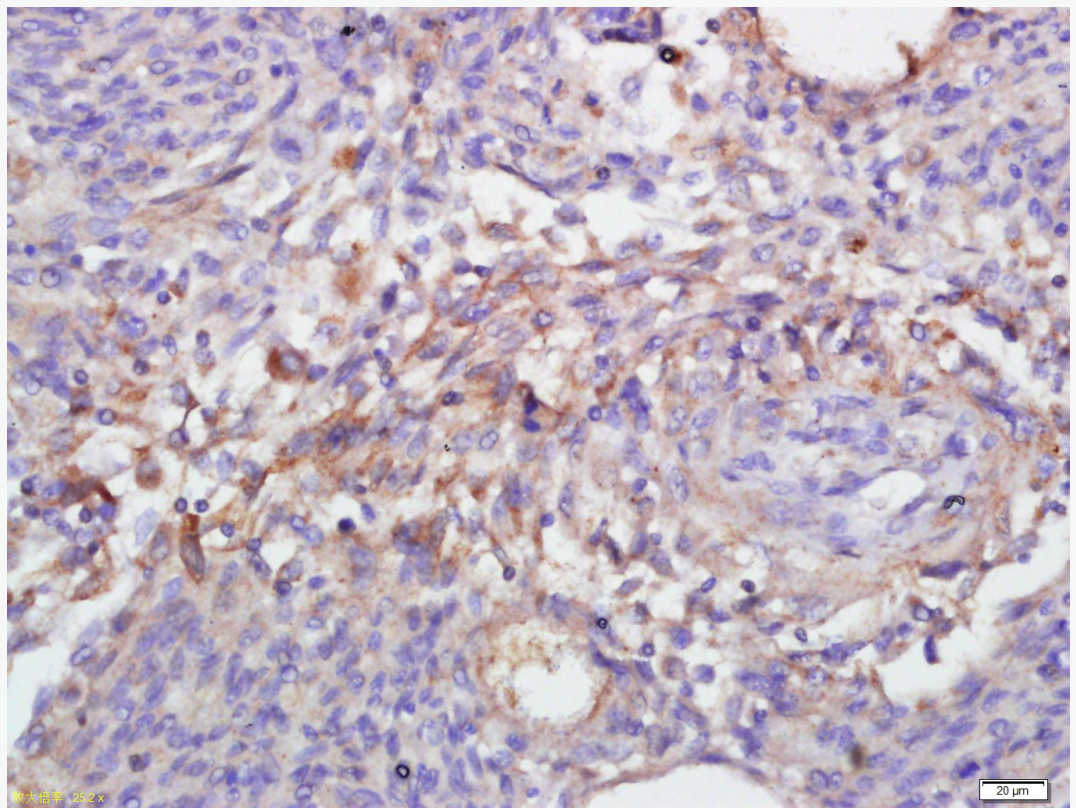
Tissue/cell: human Neurological glioblastoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, 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



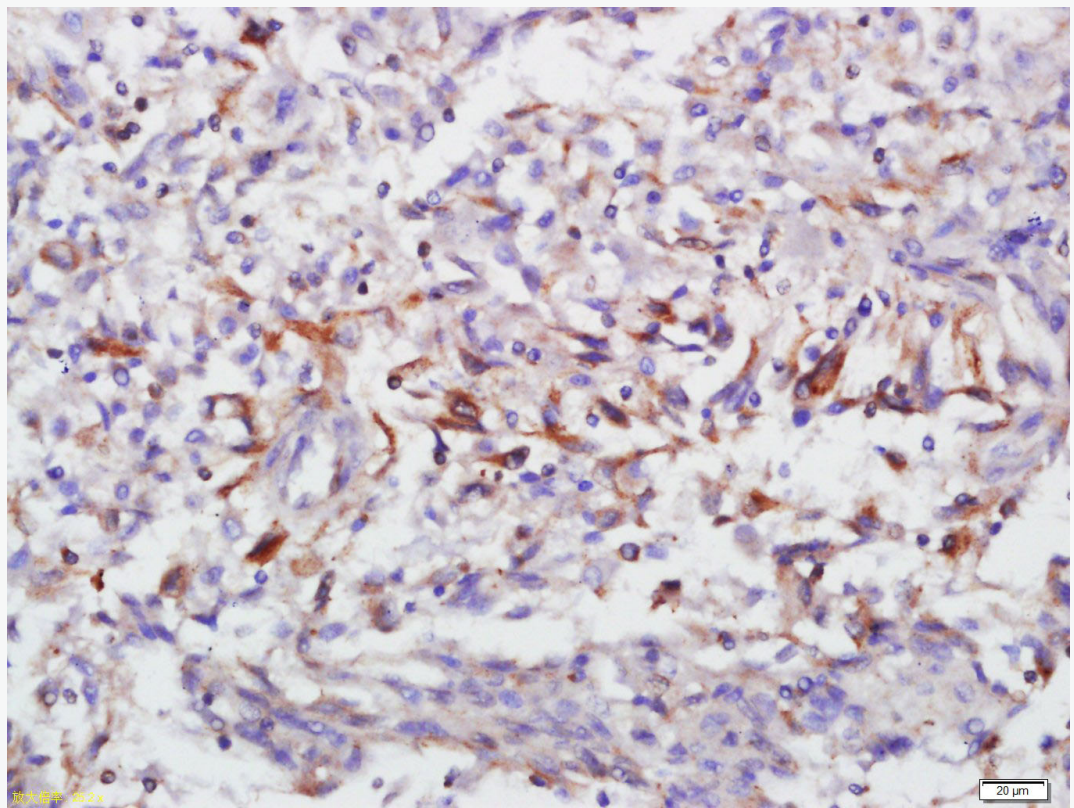
Tissue/cell: rat testis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer
(normal goat serum,C-0005) at 37← for 20 min;
Incubation: Anti-Annexin V Polyclonal Antibody, Unconjugated(SL0450R)
1:500, overnight at 42.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 (1M, 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← for 20 min;

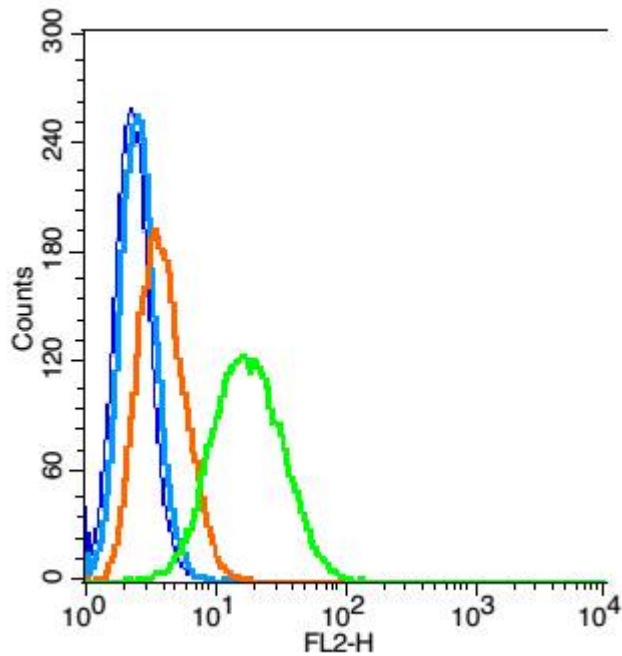
Incubation: Anti-Annexin V Polyclonal Antibody, Unconjugated(SL0450R) 1:500, overnight at 42.C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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

Antigen retrieval: citrate buffer (1M, 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← for 20 min;

Incubation: Anti-Annexin V Polyclonal Antibody, Unconjugated(SL0450R) 1:500, overnight at 42.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 μ g in 100 μ 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, 1 μ g /1x10⁶ cells) 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 SL0450R at 1/200 dilution for 30 min on ice. Acquisition



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of 20,000 events was performed.