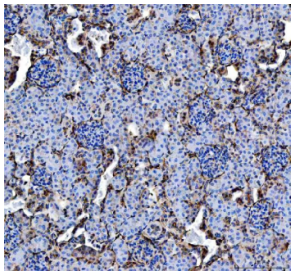
Annexin V Antibody / ANXA5 (R31475)

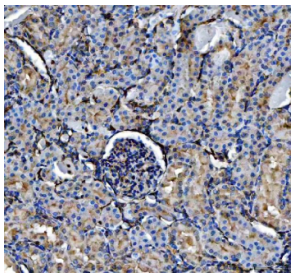
Catalog No.	Formulation	Size
R31475	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

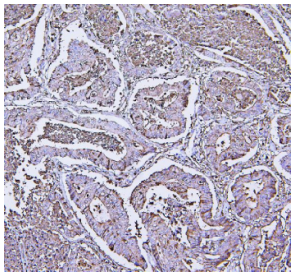
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P08758
Gene ID	308
Localization	Cytoplasmic, extracellular
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence (FFPE): 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Annexin V antibody is available for research use only.



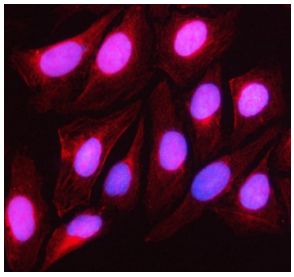
IHC staining of FFPE mouse kidney tissue with Annexin V antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



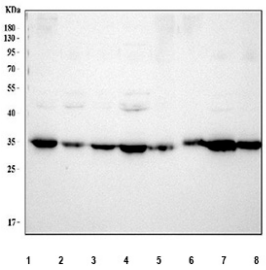
IHC staining of FFPE rat kidney tissue with Annexin V antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



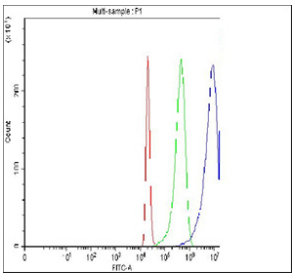
IHC staining of FFPE human colon cancer tissue with Annexin V antibody, HRP-labeled secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human U-2 OS cells with Annexin V antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HeLa, 2) human K562, 3) human 293T, 4) human HepG2, 5) rat heart, 6) mouse heart, 7) mouse RAW264.7 and 8) mouse NIH 3T3 cell lysate with Annexin V antibody. Predicted molecular weight ~36 kDa.



Flow cytometry testing of fixed and permeabilized human 293T cells with Annexin V antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Annexin V antibody.

Description

Annexin V is a member of the annexin family of calcium-dependent phospholipid-binding proteins. It plays a central role in cellular processes such as membrane organization, anti-inflammatory signaling, and particularly in the detection of early apoptosis. During apoptosis, phosphatidylserine is translocated from the inner to the outer leaflet of the plasma membrane. Annexin V binds specifically to this phospholipid, making it a widely used marker for identifying apoptotic cells in vitro and in vivo.

In addition to its role in apoptosis detection, Annexin V is involved in coagulation, inflammation, and membrane repair. It is expressed in a variety of tissues and cell types, and its functional significance has made it a valuable tool for both basic

and clinical research.

Multiple isoforms of Annexin V have been reported due to alternative splicing events, although the canonical isoform remains the most studied. These isoforms may have differences in cellular localization and functional properties, making it important to select an Annexin V antibody that provides reliable recognition of the relevant variants.

Researchers routinely use an Annexin V antibody in applications such as western blot, immunohistochemistry, flow cytometry, and immunofluorescence to detect and quantify protein expression. A high-quality Annexin V antibody is essential for studies involving cell death, cancer biology, cardiovascular disease, and immune regulation.

NSJ Bioreagents offers Annexin V antibody products that are validated for multiple applications and designed to deliver high specificity and sensitivity. Each Annexin V antibody in our catalog is backed by rigorous quality control and extensive documentation to support your experimental success.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Annexin V antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 2-320) was used as the immunogen for this Annexin V antibody.

Storage

After reconstitution, the Annexin V antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.