

Datasheet: ANNEX300F

Description:	ANNEXIN V:FITC ASSAY KIT
Name:	ANNEXIN V KIT
Format:	FITC
Product Type:	Kits
Quantity:	300 TESTS

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

Buffer Solution Annexin V:FITC:
TRIS Buffered saline

Binding Buffer (after dilution):
10mM Hepes/NaOH
140mM NaCl
2.5mM CaCl₂

Preservative Stabilisers Annexin V:FITC:
0.02% Sodium Azide (NaN₃)
1% Bovine Serum Albumin

External Database Links

UniProt:
[P08758](#) [Related reagents](#)

Entrez Gene:
[308](#) ANXA5 [Related reagents](#)

Synonyms ANX5, ENX2, PP4

Product Information This test employs the property of Annexin V to bind to the membrane phospholipid phosphatidylserine (PS) in the presence of Ca²⁺. PS is exposed at the cell surface during the early stages of apoptosis. Detection of PS is a very sensitive method for detecting cells entering apoptosis, at a time point considerably ahead of nuclear changes such as DNA degradation.

The conjugation protocol used to prepare this product has not changed the native phospholipid binding properties of Annexin V. This protocol is designed to measure apoptosis easily and quickly in a sample of suspended cells.

[View our complete list of formats and sizes of Annexin V kits](#)

Reagents In The Kit Annexin V:FITC 1x 1.5 ml vial
Propidium Iodide 2x 1.8 ml vial at 20 ug/ml
Binding Buffer 1x 50 ml vial (4x concentrate)

Instructions For Use

- 1) Dilute binding buffer 1:4 in distilled water (50 ml binding buffer + 150 ml distilled water).
- 2) Wash cells in PBS by gentle shaking or by pipetting up and down.
- 3) Resuspend cells in 200 ul of pre-diluted binding buffer, adjusting to a cell density of 2-5 x 10⁵ cells/ml.
- 4) Add 5 ul Annexin V:FITC to 195 ul of the cell suspension prepared in step 3.
- 5) Mix and incubate for 10 minutes in the dark, at room temperature.
- 6) Wash cells in 200 ul of pre-diluted binding buffer.
- 7) Resuspend cells in 190 ul pre-diluted binding buffer.
- 8) Add 10 ul of the Propidium Iodide solution.
- 9) Analyse by flow cytometry.

The flow cytometer is preferably set such that the Mean Fluorescence Intensity of the Annexin V negative population is between 1 and 10. Optimal parameter settings can be found using a positive control. For a positive control, incubate the cells with 3% formaldehyde in buffer during 30 minutes on ice. Wash away the formaldehyde and suspend the cells in cold binding buffer at 2-5 x 10⁵ cells/ml. Proceed with step 2 as described above.

References

1. Lu, K.H. *et al.* (2010) *In Vitro* and *In Vivo* Apoptosis-Inducing Antileukemic Effects of *Mucuna macrocarpa* Stem Extract on HL-60 Human Leukemia Cells. [Integr Cancer Ther. 9: 298-308.](#)

2. Yen, J.H. *et al.* (2010) Glycine tomentella Hayata inhibits IL-1 β and IL-6 production, inhibits MMP-9 activity, and enhances RAW264.7 macrophage clearance of apoptotic cells. [J Biomed Sci. 17: 83.](#)
3. Chen, C.W. *et al.* (2010) The signals of FGFs on the neurogenesis of embryonic stem cells. [J Biomed Sci.17:33.](#)
4. Lu KH *et al.* (2012) Synergistic Apoptosis-Inducing Antileukemic Effects of Arsenic Trioxide and Mucuna macrocarpa Stem Extract in Human Leukemic Cells via a Reactive Oxygen Species-Dependent Mechanism. [Evid Based Complement Alternat Med. 2012: 921430.](#)
5. Smith, K. *et al.* (2011) Mono- and tri-cationic porphyrin-monoclonal antibody conjugates: photodynamic activity and mechanism of action. [Immunology. 132 \(2\): 256-65.](#)
6. Koutsogiannaki S *et al.* (2015) Effects of cadmium and 17 β -estradiol on *Mytilus galloprovincialis* redox status. Prooxidant-antioxidant balance (PAB) as a novel approach in biomonitoring of marine environments. [Mar Environ Res. 103: 80-8.](#)

Storage Store at +4°C. DO NOT FREEZE
This product is photosensitive and should be protected from light.

Guarantee Guaranteed until date of expiry. Please see product label.

Health And Safety Information Material Safety Datasheet documentation #10229 #10230 #10181 available at:
Recombinant Annexin V (10229): <https://www.bio-rad-antibodies.com/uploads/MSDS/10229.pdf>
Binding Buffer (10230): <https://www.bio-rad-antibodies.com/uploads/MSDS/10230.pdf>
Propidium Iodide (10181): <https://www.bio-rad-antibodies.com/uploads/MSDS/10181.pdf>

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

[ANNEXIN V:FITC ASSAY KIT \(ANNEX100F\)](#)

[ANNEXIN V:Biotin ASSAY KIT \(ANNEX100B\)](#)

[ANNEXIN V:Biotin ASSAY KIT \(ANNEX20B\)](#)

[ANNEXIN V:FITC ASSAY KIT \(ANNEX20F\)](#)

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