abcam

Product datasheet

Annexin V-Cy3 Apoptosis Staining / Detection Kit with SYTOX ab14144

9 References

概述

产品名称	Annexin V-Cy3 Apoptosis Staining / Detection试剂盒with SYTOX
样品类型	Adherent cells, Suspension cells
检测类型	Direct
检测时间	0h 10m
产品概述	Annexin V-Cy3 Apoptosis Staining / Detection Kit with SYTOX (ab14144) includes Annexin V-Cy3, SYTOX green dye, and binding buffer. It can be used in a 10 min, one-step staining procedure to detect apoptosis and necrosis. Analysis is by flow cytometry or fluorescence microscopy. The SYTOX green dye is impermeant to live cells and apoptotic cells, but stains necrotic cells with intense green fluorescence by binding to cellular nucleic acids. After staining a cell population with annexin V-Cy3 and SYTOX Green dye in binding buffer, apoptotic cells show red fluorescence, dead cells show green fluorescence and live cells show little or no fluorescence. These populations can easily be distinguished by fluorescence microscopy using FITC and rhodamine filters or by flow cytometry using the FL1 channel (Ex. 488 nm/Em. 530 nm) for SYTOX Green dye and FL2 channel for Annexin V-Cy3 (Ex. 543 nm/Em. 570 nm). The Annexin V-Cy3 reagent contained in the kit is also available as Annexin V-Cy3 reagent **ab14082**.
说明	This product is manufactured by BioVision, an Abcam company and was previously called K202 Annexin V-Cy3 Apoptosis Kit Plus. K202-100 is the same size as the 100 test size of ab14144. The Annexin V apoptosis assay is based on the observation that soon after initiating apoptosis, cells translocate the membrane phospholipid phosphatidylserine (PS) from the inner face of the plasma membrane to the cell surface. Once on the cell surface, PS can easily be detected by staining with a fluorescent conjugate of Annexin V, a protein that has a strong natural affinity for PS. For more apoptosis assays, review the full set of **Annexin V assays**, or the **apoptosis assay and apoptosis marker guide**.

平台	Flow cytometer, Fluorescence microscope

性能

存放说明	Store at +4°C. Please refer to protocols.

组件	100 tests
Annexin V-Cy3	1 x 500µl
Binding Buffer	1 x 50ml
SYTOX Green Dye	1 x 100µl

功能	This protein is an anticoagulant protein that acts as an indirect inhibitor of the thromboplastin-specific complex, which is involved in the blood coagulation cascade.
疾病相关	Pregnancy loss, recurrent, 3
序列相似性	Belongs to the annexin family. Contains 4 annexin repeats.
结构域	The [IL]-x-C-x-x-[DE] motif is a proposed target motif for cysteine S-nitrosylation mediated by the iNOS-S100A8/A9 transnitrosylase complex. A pair of annexin repeats may form one binding site for calcium and phospholipid.
翻译后修饰	S-nitrosylation is induced by interferon-gamma and oxidatively-modified low-densitity lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex.

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