

Product Data Sheet

K2200 Annexin V-PE Apoptosis Detection Kit

Kit Contents

Components	K2200 25 test	Part Number
SYTOX Green Dye	1 x 25 μ L	K2200-C-1
Binding Buffer	1 x 12.5 mL	K2200-C-2
Annexin V-PE	1 x 125 μ L	K2200-C-3

Introduction

Annexin V-PE Apoptosis Staining / Detection Kit (with dead cell stain) is based on the observation that soon after initiating apoptosis, most cell types translocate the membrane phospholipid phosphatidylserine (PS) from the inner face of the plasma membrane to the cell surface.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	+4°C

Notes

Annexin V-PE Apoptosis Staining / Detection Kit (with dead cell stain) is based on the observation that soon after initiating apoptosis, most cell types 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. The one-step staining procedure takes only 10 minutes. In addition, the assay can be directly performed on live cells, without the need of fixation.

This kit includes annexin V-PE, SYTOX green dye and binding buffer. The SYTOX green dye is impermeable 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-PE and SYTOX Green dye in the provided 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 PE 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-PE (Ex= 488 nm/Em= 578 nm).

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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