For Research Use Only

CoraLite® Plus 488-Annexin V and Pl Apoptosis Kit



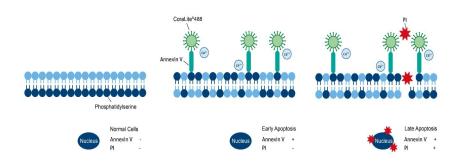
www.ptglab.com

Catalog Number: PF00005

Description

CoraLite® Plus 488-Annexin V and Pl Apoptosis Detection Kit provides a quick and easy method to detect apoptosis by marking early apoptotic cells (green) and late apoptotic cells or necrotic cells (red). Results can be read out using flow cytometry or other fluorescence testing equipment. Early apoptic cells are identified by annexin V (labeled with CoraLite® Plus 488 dye) binding to phosphatidylserine (PS) flipped to the extracellular membrane surface, an early event in apoptosis. Compared with FITC, CoraLite® Plus 488 dye has higher fluorescence brightness, and is not affected by pH in the environment, and has good light stability.

Propidium lodide (PI) is a DNA-binding dye that can stain the nucleus of necrotic cells or cells that lose cell membrane integrity in the late stages of apoptosis. PI can be excited by lasers at 488, 532 or 546nm and CoraLite® Plus 488's excitation maximum is 490 nm.



Product Information

Components	50 T	100 T
1×Annexin V Binding Buffer	50 mL	50 mL × 2
CL488-Annexin V	250 μL	500 μL
PI	500 μL	1 mL

Package

Storage

Store at 4°C, Avoid exposure to light, DO NOT freeze. stable for 24 months after shipment.

Spectral Characteristics

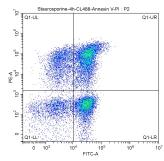
CL488-AnnexinV: Ex/Em=490/515nm PI: Ex/Em=535/617nm (withDNA)

50T/100T

Cautions

- 1. Please try to avoid light during storage.
- 2. For your safety and health, please wear lab coats and disposable gloves for operation.
- 3. For most accurate results, detection must performed as soon as possible after staining.

Validation Data

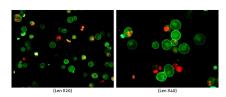


Flow Cytometry: The cell population was analyzed in THE SSC/FSC diagram:

spr-FITC-A was selected on the X axis to denote CL488-AnnexinV. The Y-axis is represented by PE-A.

spr-espected by Pe-A.

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Fluorescence Microscopy: Green: Staining with CL488-Annexin V for apooptotic cells or early apoptotic cells; sbr>Red: Staining with PI for dead cells; sbr>Yellow: double staining with CL488-Annexin V and PI for necrotic cell or late apoptotic cells.