

Annexin V-Fluorescein Apoptosis Assay Kit

Canine Annexin V-Fluorescein Apoptosis Assay Kit

CATALOG # AAA52754	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

Annexin V-Fluorescein Apoptosis; Canine Annexin V-Fluorescein Apoptosis Assay Kit; Apoptosis; Annexin V-Fluorescein Apoptosis assay kit

PRODUCT SPECIFICATIONS

Sample	Cell culture
Excitation/Emission	Annexin V-Fluorescein-494 nm / 521 nm PI-536 nm / 617 nm
Applicable Applications for Annexin V-Fluorescein Apoptosis assay kit	FCM/FACS (Flow Cytometry)
Preparation and Storage	Store at 2-8 degree C.

ADDITIONAL INFORMATION

Related Product Information for Annexin V-Fluorescein Apoptosis assay kit	Description: Canine Annexin V-Fluorescein Apoptosis Assay Kit provides a proven method for quickly and easily distinguishing two populations of dying cells from viable cells using recombinant fluorescein-conjugated Canine Annexin V and Propidium Iodide (PI). These cells will become dually labeled with Annexin V-Fluorescein (green fluorescence) and Propidium Iodide (red fluorescence). Results can be analyzed via flow cytometer. Background: Annexin V is a member of a calcium and phospholipid binding family of proteins with vascular anticoagulant activity. Results from in vitro experiments indicate that it may play a role in the inhibition of blood coagulation by competing for phosphatidylserine (PS) binding sites with prothrombin. In healthy cells, PS is usually kept in the inner-leaflet (the cytosolic side) of the cell membrane. When a cell undergoes apoptosis, one of the earliest detectable indicators is the loss of membrane asymmetry. No longer restricted to the cytosolic part of the membrane, PS is translocated to the outer-leaflet and becomes exposed on the surface of the cell. Canine Annexin V-Fluorescein Apoptosis Assay Kit provides a proven method for quickly and easily distinguishing two populations of dying cells from viable cells using recombinant fluorescein-conjugated Canine Annexin V and Propidium Iodide (PI). Cells with intact cell membranes and surface-exposed PS, a prominent feature of apoptosis, will stain positive for Annexin V-Fluorescein. PI is included in the kit to identify dying, later stage apoptotic cells which have lost plasma membrane integrity. These cells will become dually labeled with Annexin V-Fluorescein and Propidium Iodide (green and red fluorescence). Live non-apoptotic cells with intact plasma membranes will exclude PI and will remain unstained by the Annexin V-Fluorescein probe, assuming no treatment or cell cycle-associated event temporarily exposes the normally internalized, negatively charged PS entity. The kit also includes a specially formulated, calcium-based binding buffer which is required for Annexin V binding to occur. Analyze results using a flow cytometer.
Product Categories/Family for Annexin V-Fluorescein Apoptosis assay kit	Cell Viability Assays; Apoptosis

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.