

exbio

A Brighter Future in Flow

Apoptosis solutions by EXBIO

EXBIO Praha, a.s. is the leading manufacturer of monoclonal antibodies and reagents for research and clinical applications with the focus on multi-color flow cytometry analysis of human cellular markers.

Our vision:
A Brighter Future in Flow

Our commitment to the customer's needs, supported by our integrated quality management system compliant with ISO13485:2016, ISO9001:2015, cGMP (21 CFR part 820), allows us to accomplish our mission:

EXBIO strives to exceed the most demanding customer expectations in the field of analytical cytometry by providing a comprehensive portfolio of high quality products and services at affordable prices.

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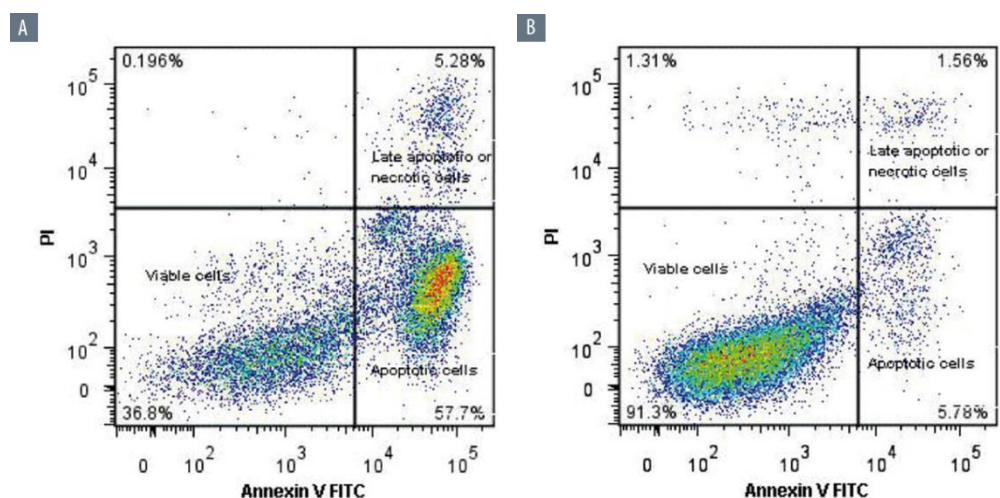
One of the earliest indications of apoptosis is the translocation of phosphatidylserine from the inner to the outer leaflet of the plasma membrane. Once exposed to the extracellular environment, phosphatidylserine becomes available for annexin V, a 35–36 kDa Ca^{2+} dependent phospholipid-binding protein with a high affinity for it. The early apoptotic cells have still intact plasma membrane, so their DNA is not accessible for propidium iodide dye, and these cells are annexin V positive and propidium iodide negative, unlike viable cells (annexin V negative, propidium iodide negative) and necrotic cells or late apoptotic cells (annexin V positive, propidium iodide positive).

EXBIO offers a complex solution for apoptosis detection via flow cytometry method: ApoFlowEx kit, annexin V in multiple formats, annexin V binding buffer and antibodies to apoptosis related antigens.

ApoFlowEx FITC Kit

Cat. No.	Product	Format	Application	Quantity
ED7044	ApoFlowEx FITC kit	FITC	FC	100 tests

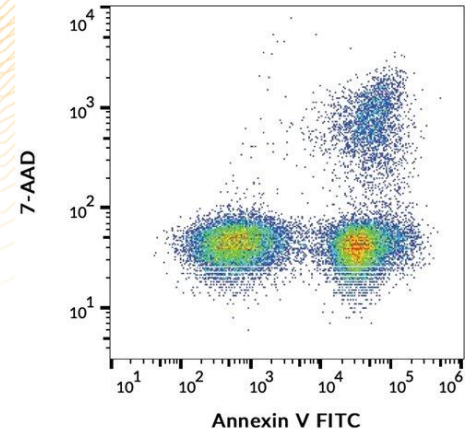
Reagents provided: Annexin V FITC / Propidium Iodide / Annexin V Binding Buffer



Analysis of camptothecin treated (A, apoptosis induced) and not treated cells (B) upon staining with ApoFlowEx FITC kit.

Annexin V – purified and fluorescently labelled

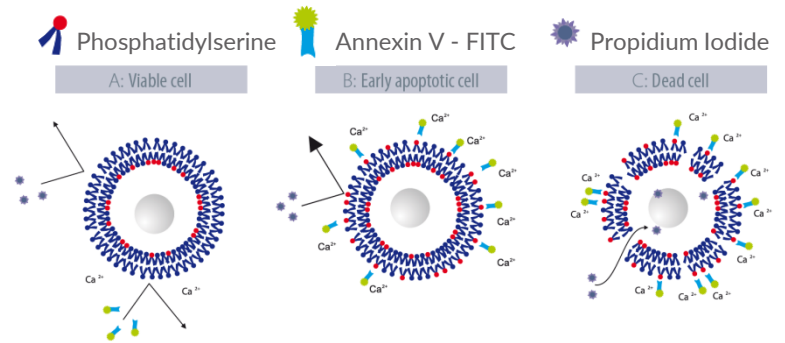
Cat. No.	Format	Application	Quantity
EXB0024	FITC	FC	100 tests
EXB0029			500 tests
EXB0027	PE	FC	100 tests
EXB0023	Dyomics 647	FC	100 tests
EXB0030			500 tests
EXB0028	APC	FC	100 tests
EXB0035	Purified (coming soon)	FC	0.1 mg
EXB0031	Biotin (coming soon)	FC	0.1 mg



Flow cytometry staining of apoptotic Jurkat cells with 7-AAD and annexin V FITC.

Annexin V Accessory Reagents

Cat. No.	Product	Quantity
EXB0019	Annexin V Binding Buffer (10x)	50 ml
EXB0018	Propidium Iodide	100 tests
EXB0026	7-AAD Viability Staining Solution	400 tests

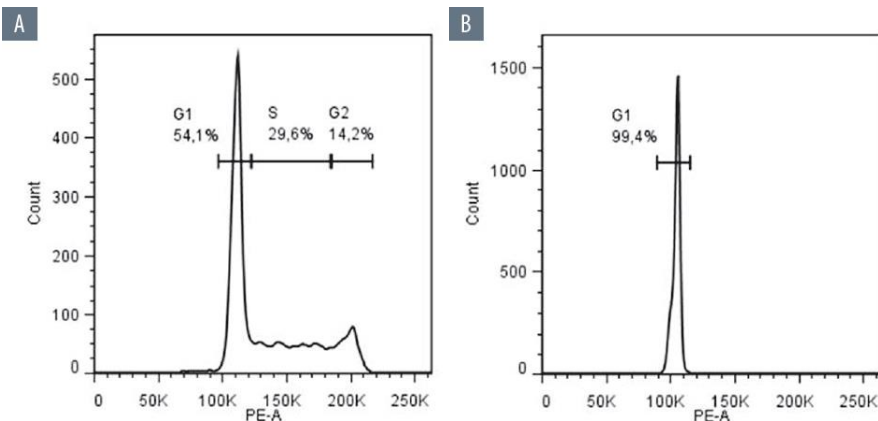


CellCycleFlowEx FITC Kit

Cat. No.	Product	Application	Quantity
ED7069	CellCycleFlowEx kit	FC	200 tests

Reagents provided: Propidium Iodide / RNase A / 10x Wash Buffer

CellCycleFlowEx is intended for cell cycle analyses based on measuring of DNA content using flow cytometry. It enables to recognize the cells in G₀/G₁ phase (the same amount of DNA as the resting cells), S phase (in the process of DNA duplication), and G₂/M phase (having double the amount of DNA as the resting cells). The kit is suitable for testing suspensions of isolated cells, such as leukocytes isolated from peripheral blood (PBMC) or cells from tissue culture.



Analysis of A) PBMC stimulated with PHA (5 ug/ml) for 3 days and B) unstimulated cells. Distribution of cells in the singlet gate according to the DNA content into G₀/G₁, S and G₂/M phases of the cell cycle.