

Resistance to apoptosis – a marker for B-CLL

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Introduction:

Apoptosis ensures equilibrium between cell proliferation and cell death and by which damaged or unwanted cells are eliminated. Aberrations in the mechanism of apoptosis may result in the occurrence of malignancies, autoimmune diseases, immune deficiency syndromes and in degenerative conditions.

B-CLL and apoptosis:

B-Cell Chronic Lymphocytic Leukemia (B-CLL) is a malignancy characterized by the resistance to apoptosis. In our laboratory we investigate (defects in) apoptotic pathways important in spontaneous and cytostatic-drug induced apoptosis. B-CLL cells from patients are isolated from blood and cultured in the presence or absence of different cytostatic drugs. Subsequently, apoptotic cells are detected by flow cytometry using Annexin V-APC (IQP-120A) staining. In addition, we use Annexin V-APC staining after transfection of B-CLL cells to measure the amount of viable transfected cells.

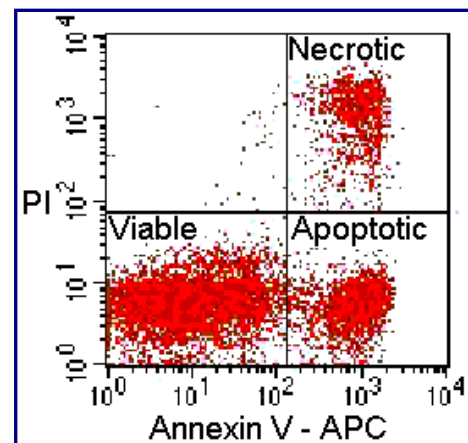


Figure illustrating B-CLL cells cultured in the presence of cytostatic drugs. 24 Hours after culturing, the amount of viable cells is determined by Annexin V-APC (IQP-120A) and propidium iodide (IQP-121) staining.

Product	Description	Purified Code	FITC Code	R-PE Code	APC Code
PSD Kit	Complete kit: Annexin V, propidium iodide and Ca ²⁺ buffer		IQP-116F	IQP-116R	
Annexin V	Binds phosphatidyl serine		IQP-120F	IQP-120R	IQP-120A
Propidium iodide	Stains dead - necrotic cells	IQP-121			
Merocyanine 540	Binds to loosely packed lipid membranes of apoptotic cells	IQP-198			

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