



Cell Apoptosis and Proliferation Assays- All You Need to Know

Cell Apoptosis

Apoptosis is a complex and active death, involving the activation, expression and regulation of a series of genes. When apoptosis occurs, a series of apoptotic processes are programmed, such as phosphatidylserines valgus outside of the cell membrane, mitochondrial membrane Δm changes, caspase activation, DNA fragmentation and so on. Abnormal apoptotic mechanism can cause cells to lose control, which is closely related to the occurrence and development of many diseases such as tumors. Accurate detection of apoptotic cells is essential in the apoptosis study.

Biotest can offer multiple apoptosis detection products ([Annexin V Detection Kits](#), [TUNEL Assay Kits](#), etc) based on the most commonly used principles.



Cell Proliferation/Cytotoxicity /Viability Detection

Cell proliferation detection is a basic experimental method to evaluate cell activity, genotoxicity and the effect of antitumor drugs. It generally reflects the growth status and activity of cells by analyzing the changes in the number of dividing cells. Cell activity is an important index to judge whether the cultured cells can grow normally under certain conditions in vitro. The detection of cell activity is an indirect method to detect cell proliferation ability. Cytotoxicity can be measured by changes in a number of indicators, including cell viability, cell proliferation, mitochondrial function, phospholipid deposition/lipid degeneration, DNA damage, and cell cycle.

Biotest provides cell proliferation and cytotoxicity/activity kits including [EdU](#), [Calcein AM/PI](#), [CCK-8](#) and [LDH](#). Depending on the type of sample and the purpose of your experiment, you can choose the appropriate kit according to your experimental requirements

Cell Apoptosis Assays

Annexin V Assay Kits* TUNEL Assay Kits* Caspase Assay Kits* JC-1 Assay Kit

[Supplier website](#) ›

Cell Proliferation/ Cytotoxicity/Viability

Edu* Calcein AM/PI* CCK-8* LDH* MTT

[Supplier website](#) ›

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