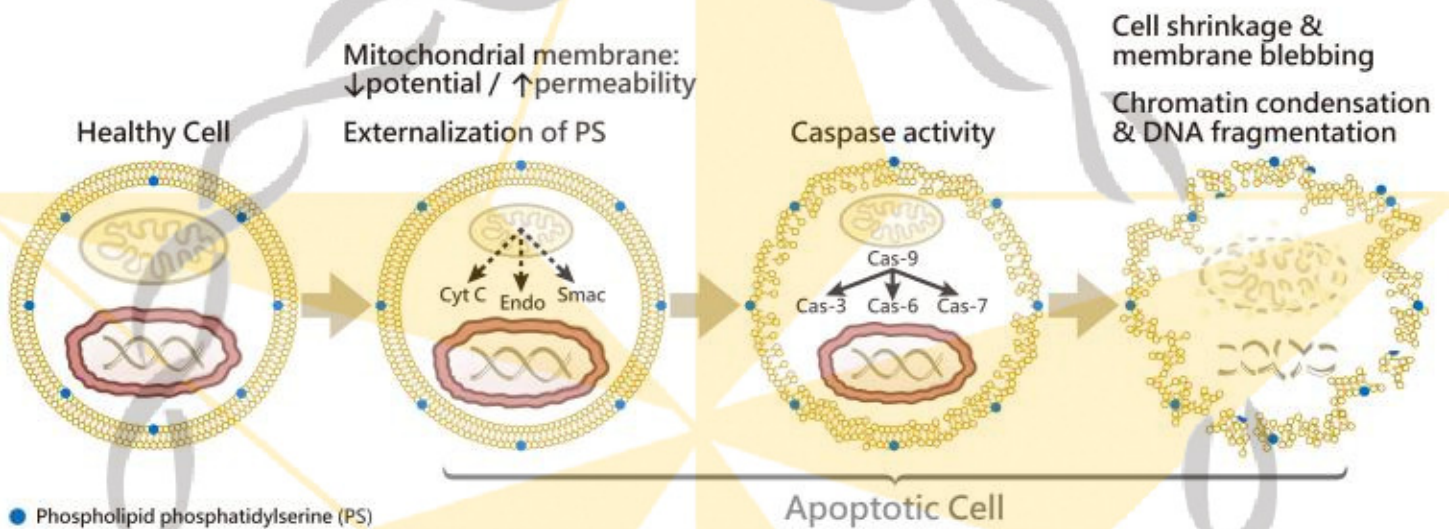


# Apoptosis Detection Kits



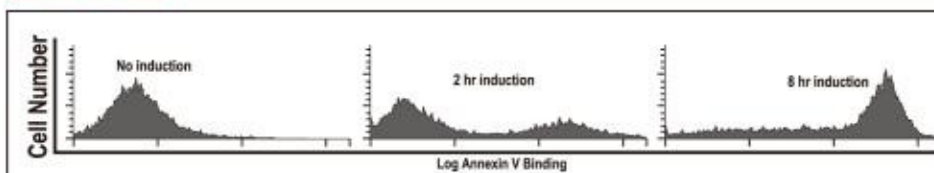
Apoptosis, or programmed cell death, is the process by which a cell undergoes a series of biochemical changes ultimately leading to its death. These changes include the loss of mitochondrial membrane potential and membrane integrity, changes in the composition of the plasma membrane, diminished metabolic activity, and DNA fragmentation. Apoptosis plays a critical role in developmental biology, neuroscience, and immunology, and defects in this pathway often result in cancer progression. GeneTex is proud to introduce a series of apoptosis detection kits. These kits are convenient and efficient tools for the study of apoptosis.

## Mitochondrial Apoptosis Detection Kits

Cat. No.	Product	Features
GTX85581	MitoLume Mitochondrial Apoptosis Detection Kit	<ul style="list-style-type: none"> <li>★ Takes ~ 30 minutes.</li> <li>★ Detection: In healthy cells, MitoLume accumulates and aggregates in the mitochondria, giving off a bright red fluorescence (EX/Em = 488/590+ 42 nm). In apoptotic cells, MitoLume remains in the cytoplasm in a fluorescent green form (Ex/Em = 488/530+ 30 nm).</li> </ul>
GTX85531	Cytochrome c Release Assay Kit	<ul style="list-style-type: none"> <li>★ Takes ~ 3 hour.</li> <li>★ Detection: WB.</li> </ul>

## Annexin V-conjugate Apoptosis Detection Kits

Detection	Biotin	EGFP	FITC	Cy3	PE	Cy5
Cat. No.	GTX85587	GTX85588	GTX85591	GTX85590	GTX85586	GTX85589



### Annexin V-EGFP Apoptosis Detection Kit (GTX85588):

Detection of apoptosis in Jurkat cells that were treated with the apoptosis inducer camptothecin (GTX47937) for various times as indicated. Results were analyzed by flow cytometry.

## Pan-Caspase Substrate / Activity Kits

Detection	Colorimetric assay	Fluorometric assay	For living cells		
	pNA	AFC	FITC	Sulfo-Rhodamine	Rhodamine 110
Casp-1, 2, 3, 5, 6, 8, 9	GTX85576	GTX85574			
Casp-1, 2, 3, 4, 5, 6, 8, 9, 10	GTX85577	GTX85575			
Caspases			GTX85572	GTX85571	GTX85573

## Caspase Substrate / Activity Kits

Detection	Colorimetric assay	Fluorometric assay	Immuno assay	For living cells	
	pNA	AFC	AFC	FITC	Sulfo-Rhodamine
Caspase-1	GTX85570	GTX85569			
Caspase-2	GTX85562	GTX85561		GTX85559	
Caspase-3	GTX85558	GTX85557	GTX85533	GTX85555	GTX85554
Caspase-4	GTX85553	GTX85552			
Caspase-5	GTX85550	GTX85549			
Caspase-6	GTX85547	GTX85546			
Caspase-7			GTX85532		
Caspase-8	GTX85543	GTX85542		GTX85540	GTX85539
Caspase-9	GTX85538	GTX85537		GTX85535	GTX85534
Caspase-10	GTX85567	GTX85566			
Caspase-12		GTX85564		GTX85563	

## DNA Ladder Detection Kits

Cat. No.	Product	Features
GTX85580	Apoptotic DNA Ladder Isolation Kit	<ul style="list-style-type: none"> <li>★ Takes only 2-4 hours.</li> <li>★ Available for both tissues and cells.</li> <li>★ Extract fragmented DNA from an apoptotic cell population as low as 5%.</li> </ul>
GTX85527	Easy Apoptotic DNA Ladder Detection Kit	<ul style="list-style-type: none"> <li>★ Takes only 90 minutes.</li> <li>★ Improves sensitivity by increasing recovery of small DNA fragments.</li> </ul>
GTX85530	Enhanced Apoptotic DNA Ladder Detection Kit	<ul style="list-style-type: none"> <li>★ Takes only 90 minutes.</li> <li>★ Available for both tissues and cells.</li> <li>★ Higher sensitivity.</li> </ul>

## TUNEL Assay Kits

Cat. No.	Product	Features
GTX85582	easyTUNEL DNA Fragmentation Assay Kit	<ul style="list-style-type: none"> <li>★ Takes less than 1 hour.</li> <li>★ Detection: FITC-dUTP (Ex/Em = 488/520 nm).</li> </ul>
GTX85583	proTUNEL-IHC DNA Fragmentation Assay Kit	<ul style="list-style-type: none"> <li>★ Detection: Br-dUTP + anti-BrdU-Biotin Ab + Streptavidin-HRP + DAB.</li> </ul>
GTX85584	proTUNEL-Red DNA Fragmentation Assay Kit	<ul style="list-style-type: none"> <li>★ Take ~ 3 hours.</li> <li>★ Detection: Br-dUTP + anti-BrdU-Red Ab (Ex/Em = 488/576 nm).</li> </ul>
GTX85585	proTUNEL DNA Fragmentation Assay Kit	<ul style="list-style-type: none"> <li>★ Takes ~ 1 hour.</li> <li>★ Greater sensitivity.</li> <li>★ Detection: Br-dUTP + anti-BrdU-FITC Ab (Ex/Em = 488/520 nm).</li> </ul>

