

# Apoptosis Assay Selection Guide

Many assays exist to measure apoptosis, cell death and cell proliferation. However, if you have only recently become interested in this area, you may find the diversity of assays for measuring apoptosis, cell death, and cell proliferation bewildering. Here we present the frequently asked questions and answers to help you choose the best assays for your purposes.

## Select assays based on sample types

| My sample is...                                 | Product  | Cat#      |
|---|--|-----------|
| <b>Live Cells<br/>(Suspension or Adherent)</b>  | Annexin V Apoptosis Assay Kits . . . . .         | K101-K104 |
|   | CaspGlow Caspase Assay Kits . . . . .            | K172-K199 |
|   | MitoCapture Apoptosis Assay Kit . . . . .        | K250      |
| <b>Cell Lysate<br/>(Fresh or Frozen)</b>        | Caspase (1-12) Fluorometric Assay Kits . . . . . | K105-K126 |
|   | Caspase (1-10) Colorimetric Assay Kits . . . . . | K106-K127 |
| <b>Tissue Lysate<br/>(Fresh or Frozen)</b>      | Caspase (1-12) Fluorometric Assay Kits . . . . . | K105-K126 |
|   | ADP/ATP Assay Kit . . . . .                      | K255      |
| <b>Tissue Sections<br/>(Frozen or paraffin)</b> | Apo-BrdU-IHC . . . . .                           | K403      |
|   | Active Caspase-3 Antibody . . . . .              | 3015      |

## Measure apoptosis in different areas of the cell

| I want to measure...         | Product   | Cat#      |
|------------------------------|---|-----------|
| <b>Mitochondrial Changes</b> | MitoCapture Assay Kit . . . . .                     | K250      |
|                              | Cytochrome c Releasing Apoptosis Assay Kit. . . . . | K257      |
| <b>Membrane Changes</b>      | Annexin V Assay Kits . . . . .                      | K101-K104 |
| <b>Nuclear Changes</b>       | DNA Ladder Assay Kits . . . . .                     | K170      |
|                              | TUNEL Assay Kits. . . . .                           | K401-K404 |
| <b>Cytosol Changes</b>       | Caspase Assay Kits. . . . .                         | K105-K127 |

## Select assays based on specific purpose

| My purpose is to...                                   | Product   | Cat#      |
|---|---|-----------|
| <b>Measure Cytochrome c Release</b>                   | Cytochrome c Releasing Apoptosis Assay Kit. . . . . | K257      |
| <b>Screen Caspase Inhibitors</b>                      | Caspase Inhibitor Screening Kits. . . . .           | K151-K160 |
| <b>Block Apoptotic Gene Expression</b>                | siRNA Apoptotic Gene Expression Vectors . . . . .   | 9500-9520 |
| <b>Study Apoptosis Related Non-Caspase Proteases</b>  | Calpain Assay Kit. . . . .                          | K240      |
|   | Cathepsin Assay Kits . . . . .                      | K140-K145 |
| <b>Isolate Apoptotic Cells</b>                        | Apoptotic Cell Isolation Kit . . . . .              | K258      |
| <b>Induce Apoptosis</b>                               | Ready-to-use Apoptosis Inducers. . . . .            | K121      |
| <b>Differentiate between Apoptosis &amp; Necrosis</b> | Annexin V-FITC Apoptosis Kit. . . . .               | K101      |
|   | Annexin V-EGFP Apoptosis Kit . . . . .              | K104      |