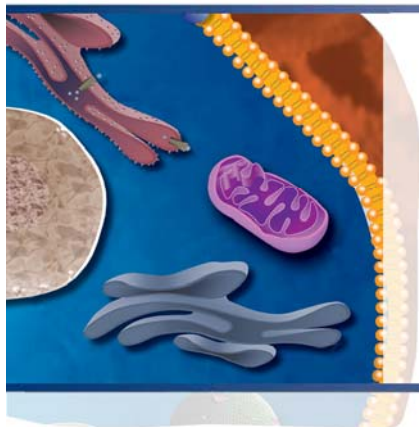


# Novel Tools for Flow Cytometry

- Innovative dye-based flow cytometry assays for monitoring cellular stress, cytotoxicity and modes of cell death
- Robust assays compatible with all flow cytometry platforms
- Broad range of flow cytometry-validated antibodies for cellular analysis



## Cell Viability, Proliferation & Death

Flexible

Cost Effective

Informative

Enzo Life Sciences offers a variety of flow cytometry-based assays for cell viability, proliferation and death analysis, available in a wide range of formats to meet individual research needs. These flexible assays are compatible with all flow cytometry platforms, regardless of size or functionality. The assays are easy to perform and can be run quickly using small sample input, without sacrificing sensitivity. This portfolio has been designed to include multiple applications-driven configurations providing information on different parameters of interest. Included is an assay for simultaneous analysis of all three major forms of programmed cell death.

### Assays Available

- **Cyto-ID<sup>®</sup> Autophagy Detection Kit:** The only live cell assay that identifies autophagy regulators by imaging and flow cytometry.
- **Cyto-ID<sup>®</sup> Autophagy/Apoptosis/Necrosis Kit:** The only live cell assay that distinguishes between all three major forms of cell death, as defined by the Nomenclature Committee on Cell Death
- **ProteoStat<sup>®</sup> Aggresome Detection Kit:** The only assay that detects aggresomes and aggresome-like inclusion bodies by flow cytometry.
- **Nuclear-ID<sup>®</sup> Cell Cycle Kits:** Allow simple mix-and read detection of DNA content in live cells. Kits are available with Nuclear-ID<sup>®</sup> Green Cell Cycle reagent or Red Cell Cycle reagent for multiplexing with GFP and other green, cyan or blue fluorescent probes.
- **Nuclear-ID<sup>®</sup> Chromatin Condensation Assay Kit:** Live cell analysis assay for detection of nuclear condensation, one of the prominent hallmarks of apoptosis. Does not require installation of a specialized violet laser.
- **Cyto-ID<sup>®</sup> Long-Term Cell Tracer Kits:** Non-toxic, fluorescent labeling of live cells over extended time periods. Available with Cyto-ID<sup>®</sup> Green Tracer dye or Red Tracer dye. Both kits allow multiplexed labeling with a variety of CELLestial<sup>®</sup> fluorescent probes.

For a complete listing of our cell viability, proliferation, and death assays as well as complementary products, please visit [www.enzolifesciences.com](http://www.enzolifesciences.com)

## Oxidative Stress: Reactive Oxygen Species and Mitochondrial Membrane Potential

Robust

Cost Effective

Multiplexed

Enzo Life Sciences' cell-based phenotypic assays directly monitor global levels of reactive oxygen species (ROS) and evaluate the functional status of mitochondrial membrane potential in live cells. These flexible assays are compatible with all flow cytometry platforms regardless of size or functionality. The assays are easy to perform and can be run quickly while providing robust signal and high sensitivity. This portfolio has been optimized to provide maximum information from a single test. Many of the kits are provided in multiplexed configurations.

### Assays Available

- **Total ROS/Superoxide Detection Kit**
- **Total ROS Detection Kit**
- **Superoxide Detection Kit**
- **Mito-ID<sup>®</sup> Membrane Potential Detection Kit**



For a full listing of our cellular processes assays and complementary products, please visit [www.enzolifesciences.com](http://www.enzolifesciences.com)

## Drug Disposition: Multi-Drug Resistance Profiling

Sensitive

Informative

Flexible

The Enzo Life Sciences multidrug resistance assays are the only available kits for simultaneous monitoring of all three major ABC transporter proteins — MDR, MRP & BCRP. The high sensitivity of the assay delivers fewer false negative results, and provides data for BCRP activity not detected in Calcein AM assays. The kits are easily incorporated into a high content screening environment making them ideal for drug screening applications.

### Assays Available

- eFluxx-ID® Green Multidrug Resistance Assay
- eFluxx-ID® Gold Multidrug Resistance Assay

## Antibodies for Cellular Analysis

The Enzo Life Sciences portfolio of over 3,000 antibodies for cellular analysis includes more than 500 antibodies specifically validated for use in flow cytometry. These include isotype controls as well as biotin and fluorescent conjugates for use in evaluating intracellular and extracellular proteins, including:

- CD antigens
- Toll-like receptors (TLRs)
- Heat shock proteins (HSPs)
- Heme oxygenases
- TNF/TRAIL receptors
- GPCRs
- Bcl-2 family members
- Caspases
- Chemokine receptors
- Growth factor receptors

## Custom Conjugation Service

Can't find the conjugate you need? Enzo Life Sciences offers custom conjugation services for our antibodies and proteins. Purchase at least 5 mg of antibody, and we'll conjugate it for FREE! Contact our customer service or your local sales representative for more information.



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