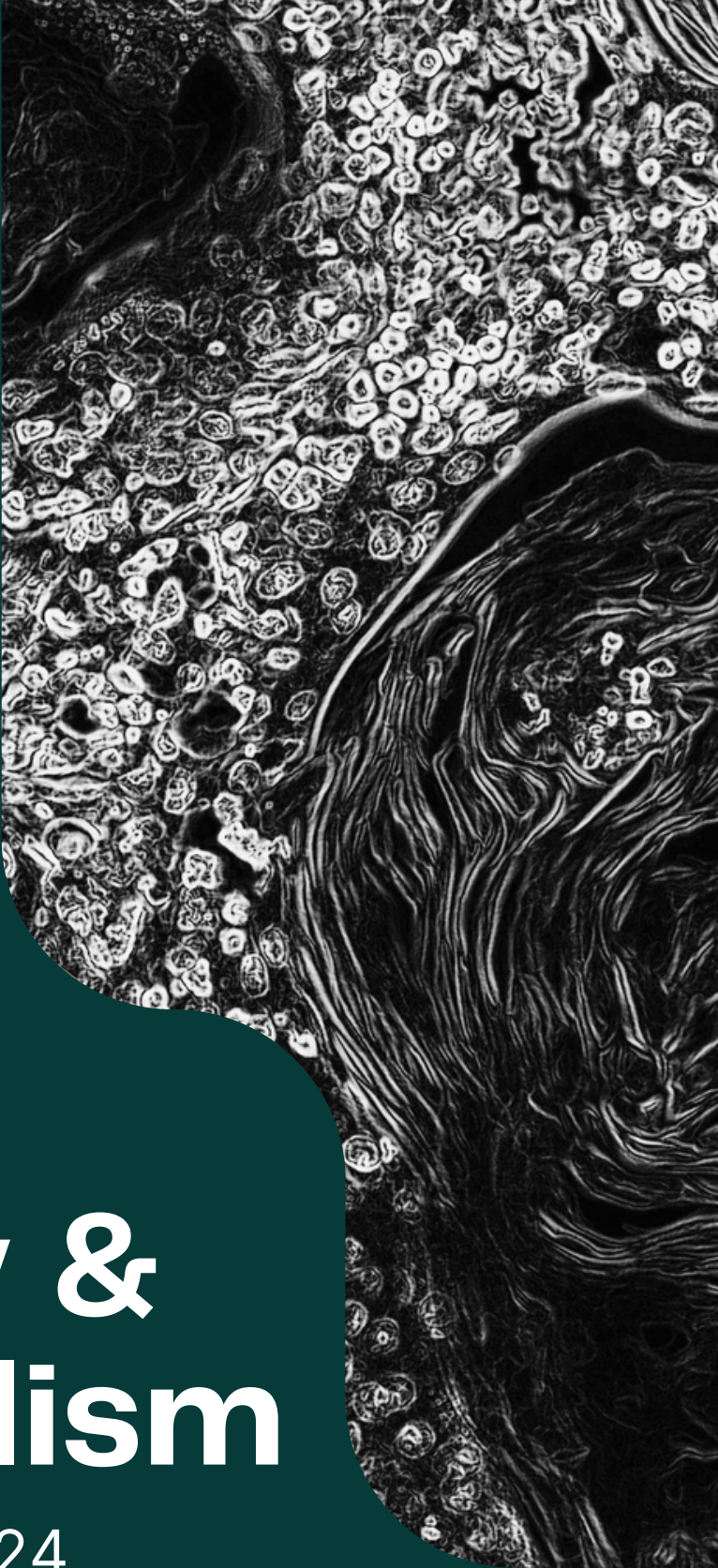


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A black and white microscopic image showing a dense field of cells, likely fibroblasts, with a prominent network of actin filaments forming a cytoskeleton. The cells are arranged in a somewhat organized pattern, with some showing clear nuclei and others appearing more elongated and spindle-shaped. The overall texture is highly detailed and complex.

Cellular Viability & Metabolism

New Products in 2024

Assay & Kits

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Fluorescent Dye Kits

Fluorescent Dye Kits fall into a specialized category of biochemical tools designed for precise labeling and detection of specific molecules or structures within cells or tissues. These kits utilize various fluorescent dyes, each emitting distinct colors of light upon excitation by a light source. The following are examples of Fluorescent Dye Kits, categorized based on their applications:

Apoptosis Detection Identifies and labels cells undergoing apoptosis with distinct fluorescent signals (blue, green, orange, or red), aiding in precise detection of programmed cell death.

Plasma Membrane Staining Utilizes fluorescent dyes (green or orange emissions) to stain and visualize the cell's outer membrane, contributing to studies on cell structure and interactions.

F-actin Staining Highlights F-actin structures within cells using green or orange fluorescence, providing insights into cellular morphology and function through cytoskeletal analysis.

Lysosome Detection Labels lysosomes with green or red fluorescence, enabling the tracking and study of lysosomal dynamics, shedding light on cellular digestion and recycling processes.

Tubulin Tracking Tracks tubulin, a crucial cytoskeletal protein, with green or red fluorescence, offering insights into cell division, intracellular transport, and cytoskeletal organization.

Additional Applications Includes diverse tools like Annexin V-EGFP/PI Apoptosis Detection Kits, Live and Dead Cell Double Staining Kits, and Live Cell Tracking Kits (Green Fluorescence), providing researchers with versatile options for fluorescence-based analyses.

Enzyme Activity Assay Kits

These kits play a crucial role in the quantification of enzyme activity or inhibition across various biological processes, encompassing metabolism, cell signaling, oxidative stress, epigenetics, and more. They employ colorimetric or fluorometric methods for accurate measurement. Some noteworthy examples include:

Caspase Activity Quantify caspase enzyme activity crucial for understanding programmed cell death using colorimetric methods.

Metabolic Enzyme Activity Measure enzymes like 6-Phosphofructokinase, Acetyl Coenzyme A, aiding metabolic pathway studies with colorimetric or fluorometric techniques.

Amino Acid and Protein Explore cell signaling, energy metabolism, and protein synthesis with kits quantifying enzymes such as Ca²⁺, Mg²⁺, ATPase, NAD(H), and NADP(H).

Enzymes Involved in Cellular Processes Study cellular functions like lipid metabolism and glucose utilization using kits targeting enzymes like Fatty Acid Synthetase, Glutamate Synthase, and Hexokinase.

Antioxidant and Redox Enzyme Investigate antioxidant defense mechanisms with kits measuring enzymes like Catalase and Glutathione Peroxidase using colorimetric or fluorometric methods.

Mitochondrial Enzyme Activity Gain insights into mitochondrial function, energy production, and cellular respiration by measuring activities from Complex I to Complex V.

Other Enzyme Activity Explore diverse cellular processes, including neurotransmission and ion transport, with kits targeting enzymes like Monoamine Oxidase, Na⁺, K⁺-ATPase, and Nitric Oxide Synthase.

These kits serve as versatile tools for measuring and detecting various parameters or molecules of interest, encompassing crucial aspects such as cell viability, cell cycle progression, cell migration, DNA damage, antioxidants, glucose levels, cholesterol, fatty acids, flavonoids, and more. Employing a range of methods or principles, including colorimetric, fluorometric, and ELISA techniques, they offer comprehensive solutions for researchers. Here are some noteworthy examples:

Cell Viability and Proliferation

Assess cell health and growth using kits like LDH Cytotoxicity Assay Kit and Cell Counting Kit, vital for understanding cellular well-being and viability.

Cell Cycle Analysis

Study cell cycle progression with the Cell Cycle Staining Kit, aiding in the identification of different cell cycle phases and insights into cellular regulation.

Cell Migration and DNA Damage

Investigate cell movement and DNA damage responses using tools like the Cell Migration Assay Kit and Comet Assay Kit, contributing to our understanding of cellular behavior.

Antioxidant Capacity

Evaluate cellular antioxidant defenses with kits like the Hydroxyl Radical Antioxidant Capacity Fluorometric Assay Kit, providing insights into cellular responses to oxidative stress.

Blood Glucose and Lipid Profiling

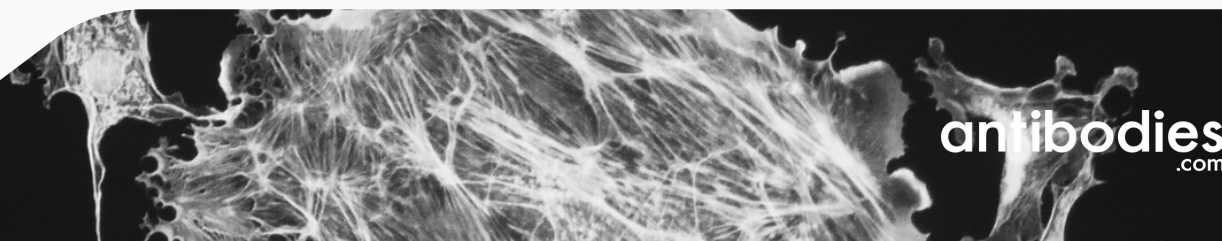
Analyze metabolic parameters with kits like Blood Glucose Assay Kit and Free Cholesterol Assay Kit, contributing to lipid profiling and glucose homeostasis studies.

Flavonoids and Dietary Compounds

Study flavonoids and dietary compounds in plant extracts with kits like Plant Flavonoids Assay Kit, supporting research in nutrition and dietary science.

Food Safety

Ensure food safety with tools like the Food Nitrite Assay Kit, offering reliable detection of nitrite levels for assessing potential hazards in food samples.



Our Products

Category	Subcategory	Cat. No
Glycolysis and Energy Metabolism	6-Phosphofructokinase Activity	A319652
	6-Phosphogluconate Dehydrogenase Activity	A319653
	Acetyl Coenzyme A	A319654
	Acetylcholinesterase Activity	A319655
	Aconitase Activity	A319656
	Advanced Oxidation Protein Products	A319657
Amino Acid Metabolism	Alanine Aminotransferase Activity	A319658
	Alcohol Acyltransferase Activity	A319659
	Alcohol Dehydrogenase Activity	A319660
	Alpha Amylase Activity	A319757
	Alpha Ketoglutarate Dehydrogenase	A319758
	Amino Acid	A319661
Apoptosis Detection Kits	Annexin Fluorescent Dye 405 Labelled	A319603
	Annexin Fluorescent Dye 488 Labelled / PI	A319604
	Annexin V-EGFP / PI	A319622
	Annexin V-Fluorescent Dye 555 Labelled	A319605
	Annexin V-Fluorescent Dye 647 Labelled	A319606
Secondary Metabolism	Anthocyanidin Reductase Activity	A319662
	Aspartate Aminotransferase Activity	A319663
	Beta Amylase Activity	A319759
	Blood Glucose	A319664
Ion Transport	Ca ²⁺ /Mg ²⁺ -ATPase Activity	A319665
Caspase Assays	Caspase-1	A319624
	Caspase-2	A319625
	Caspase-3	A319626
	Caspase-4	A319627
	Caspase-6	A319628
	Caspase-8	A319629
	Caspase-9	A319630

Our Products

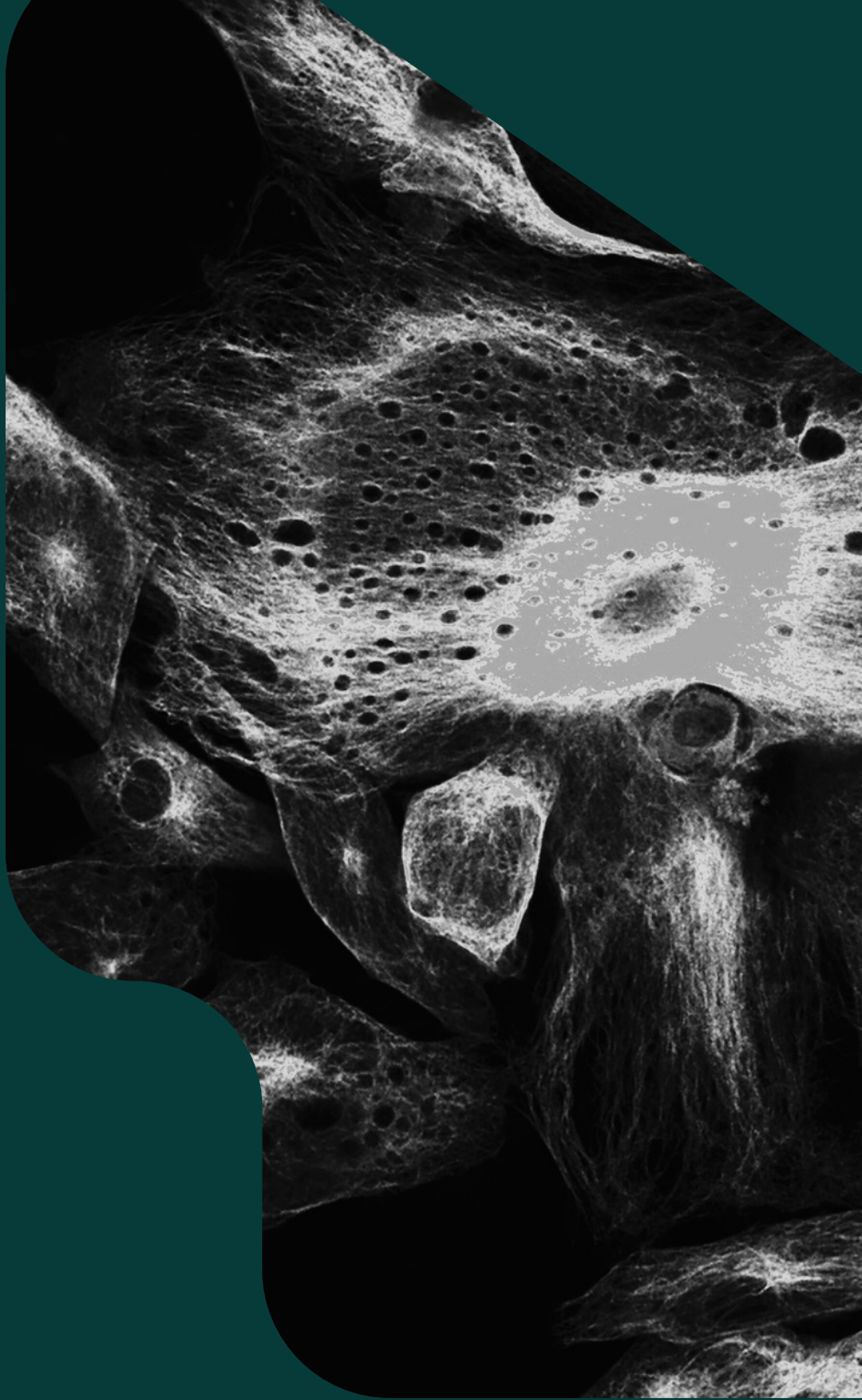
Category	Subcategory	Cat. No
Antioxidant Enzymes	Catalase Activity	A319666
	Glutathione Peroxidase Activity	A319686
	Glutathione Reductases Activity	A319687
	Glutathione S-Transferase	A319688
Cell Viability and Proliferation	Cell Counting	A319631
	Cell Cycle Staining	A319632
	Cell Migration Assay (24 well, 8 µm)	A319633
	Cell Plasma Membrane Staining (Green)	A319610
	Cell Plasma Membrane Staining (Orange)	A319611
Metal Ions and Enzyme Activity	Ceruloplasmin Activity	A319667
	Citrate Synthase Activity	A319668
	Creatine Kinase Activity	A319671
	Cysteine	A319672
	Diamine Oxidase Activity	A319673
Cytoskeleton and Structural Proteins	F-actin Staining (Green)	A319612
	F-actin Staining (Orange)	
Lipid Metabolism	Fatty Acid Synthetase Activity	A319674
	Food Nitrite	A319675
	Free Cholesterol	A319676
	Free Fatty Acid	A319677
	Gamma Glutamyl Cysteine Ligase	A319760
	Gamma Glutamyl Transpeptidase	A319678
Carbohydrate Metabolism	Glucose	A319679
	Glucose Oxidase Activity	A319680
	Glucose-6-Phosphate Dehydrogenase	A319681
	Hexokinase Activity	A319690
	High-Density Lipoprotein Cholesterol	A319691

Our Products

Category	Subcategory	Cat. No
Reactive Oxygen Species (ROS)	Hydrogen Peroxide	A319692
	Hydroxyl Free Radical Scavenging Capacity	A319693
	Hydroxyl Radical Antioxidant Capacity	A319648
	Lactate	A319694
	Lactate Dehydrogenase	A319695
	LDH Cytotoxicity	A319649
Lipid Peroxidation and Antioxidants	Lipid Peroxidation	A319696
	Live and Dead Cell Double Staining	A319650
	Live Cell Tracking (Green)	A319651
	Live-cell Lyso-traker (Green)	A319617
	Live-cell Lyso-traker (Red)	A319618
	Live-cell Tubulin-traker (Green)	A319619
	Live-cell Tubulin-traker (Red)	A319620
Cholesterol and Lipoprotein Metabolism	Low-Density Lipoprotein Cholesterol	A319697
Amino Acid Analysis	Lysine	A319698
	Phenylalanine Ammonia Lyase	A319714
	Proline	A319722
Enzyme Activity	Malate Dehydrogenase (NAD ⁺ /NADH)	A319710
	Malate Dehydrogenase (NADP ⁺ /NADPH)	A319711
	Monoamine Oxidase	A319706
	Na ⁺ /K ⁺ -ATPase	A319707
	NAD(H)	A319669
	NAD ⁺ kinase	A319708
	NADH Oxidase	A319709
	NADP(H)	A319670
Nitric Oxide and ROS Detection	Nitric Oxide	A319712
	Reactive Oxygen Species (ROS) Detection	A319771

Our Products

Category	Subcategory	Cat. No
DNA Damage Detection	Comet Assay (3-Well Slides)	A319634
	One-step TUNEL Apoptosis (Green)	A319767
	One-step TUNEL Apoptosis (Orange)	A319768
Plant Metabolism	Plant Flavonoids	A319717
	Plant Oligomeric Proantho Cyanidins	A319718
	Plant Soluble Sugar	A319719
	Plant Total Phenols	A319720
	Polyphenol Oxidase Activity	A319721
Protein Assays	Protein Quantification (BCA Assay)	A319770
Carboxylic Acid Metabolism	Pyruvate Acid	A319724
	Pyruvate Decarboxylase	A319725
	Pyruvate Dehydrogenase	A319726
	Pyruvate Kinase	A319727
GSH and Antioxidant Enzymes	Reduced Glutathione (GSH)	A319728
	Peroxidase Activity	A319713
	Oxidized Glutathione (GSSG)	A319685
	Oxygen Radical Antioxidant Capacity	A319769
Mitochondrial Function	Mitochondrial Complex I	A319699
	Mitochondrial Complex II	A319700
	Mitochondrial Complex III	A319701
	Mitochondrial Complex IV	A319702
	Mitochondrial Complex V	A319703
	Mitochondrial Isocitrate Dehydrogenase	A319704
	Mitochondrial Malate Dehydrogenase	A319705
	Mitochondrial Membrane Potential (JC-1)	A319761
	Mitochondrial Permeability Transition Pore	A319762
	Mitochondrion and Nuclear Staining	A319614
	Mitochondrion Staining (Green)	A319615
Mitochondrion Staining (Orange)	A319616	



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