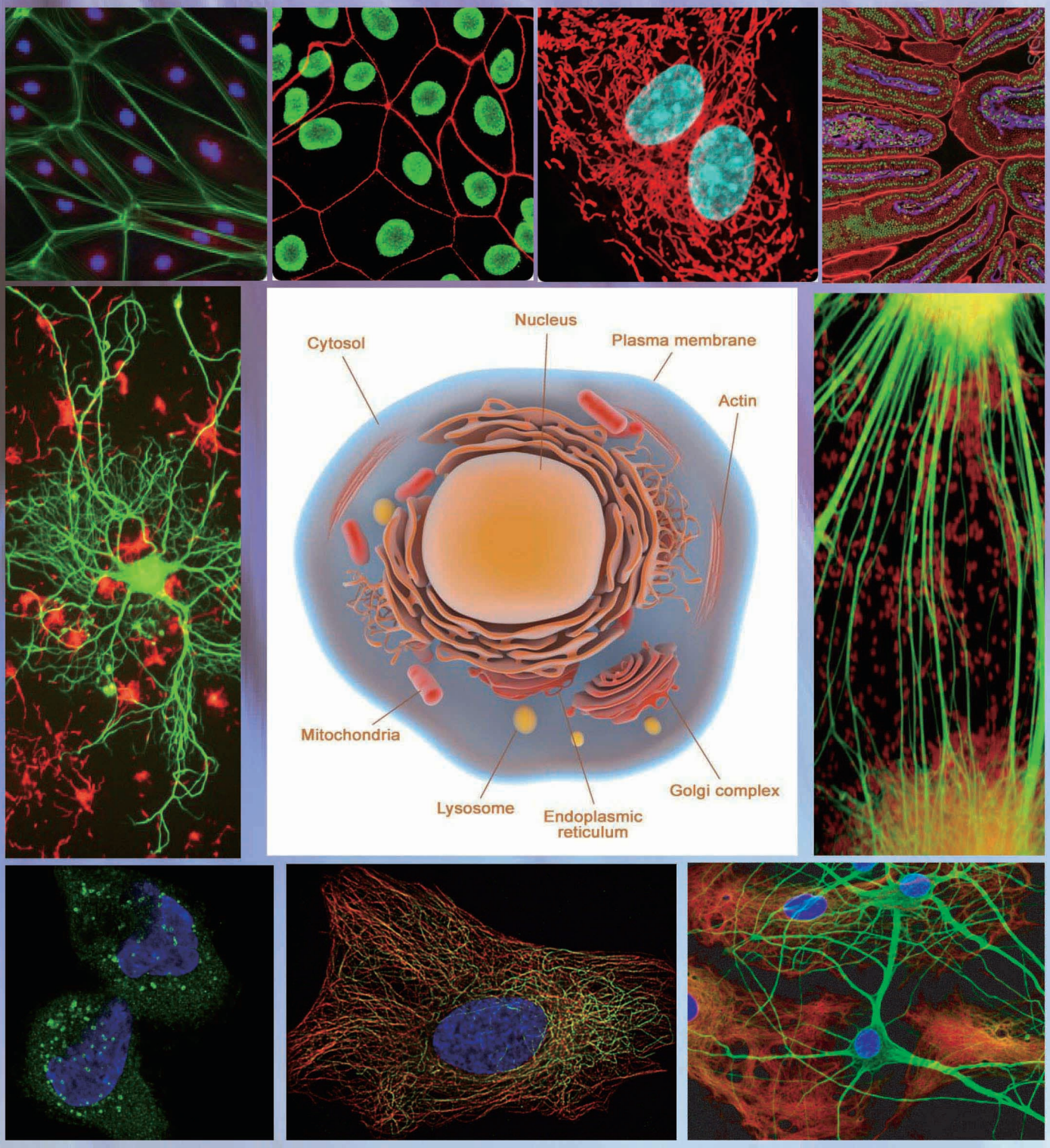


ABP Biosciences

Cell Structure Probes

Cell Structure Probes

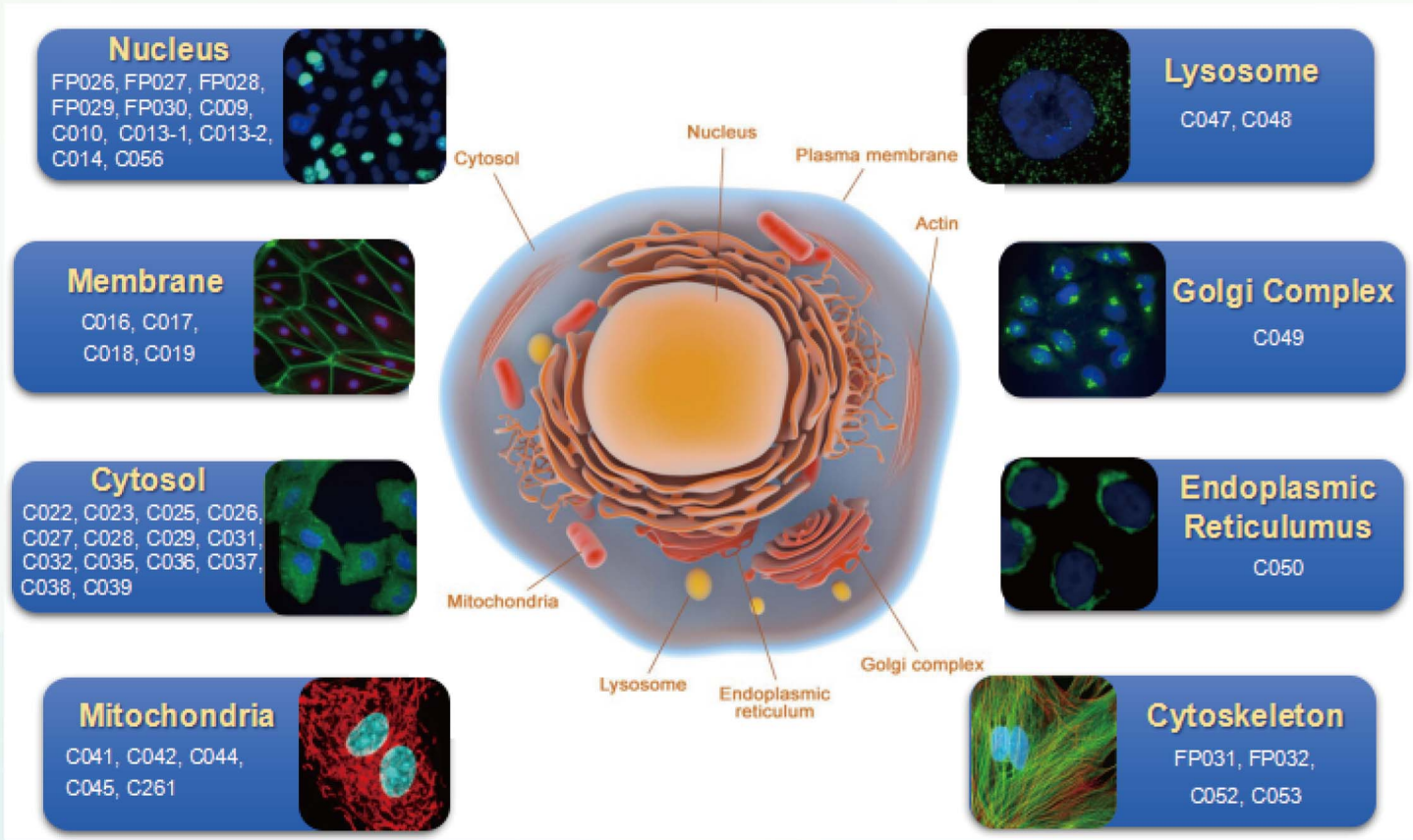
Multiple selections of high-quality probes for organelle and membrane specific stains

ABP Biosciences offers a diverse selection of cell structure probes to specifically stain from organelle and membrane to whole cell. These small organic stains have been widely used as counterstains to help identify the location of specific proteins and targets of interest within the cell while detection of antibodies against proteins associated with specific organelles can lead to a better understanding of cellular function. Our cell structure probes are designed for organelle-specific stains for live-cell or fixed-cell labeling.

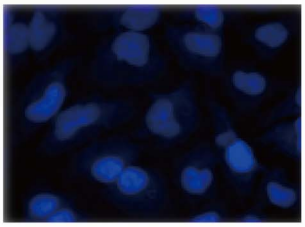
FEATURES

- ♦ Bright fluorescence
- ♦ Multicolor selection
- ♦ Compatible for cell imaging and flow cytometry
- ♦ Validated protocol

Cell Structure Probes Selection Guide



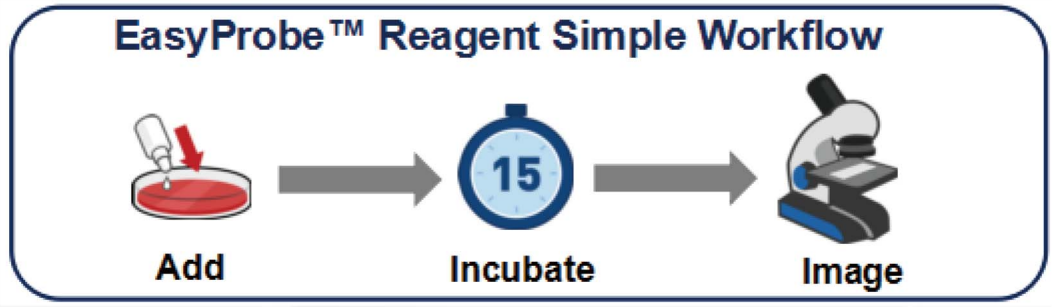
Nuclear Counterstains

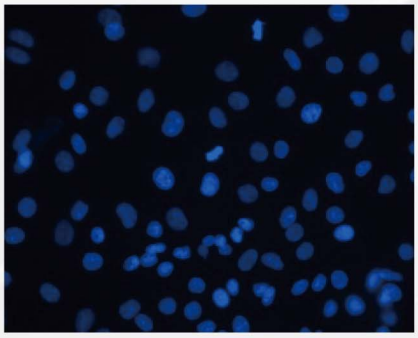


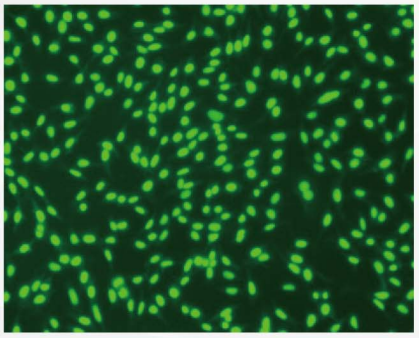
The nucleus of the cell is a membrane-bound organelle that includes the nuclear envelope, nucleoli, and nuclear lamina and is the site of gene expression. Nuclear structure can be selectively visualized using nuclear counterstains.

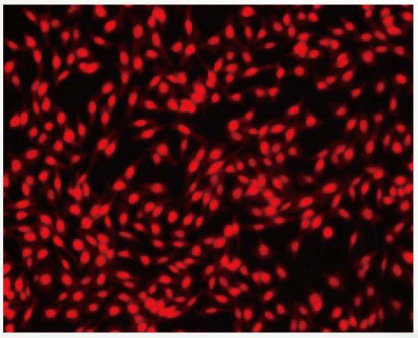
ABP Biosciences offers a selection of nuclear counterstains to stain live or dead cells/tissues, providing a means to locate the nucleus and follow nuclear changes throughout cellular processes, from mitosis to apoptosis.

Cat. No.	Product Name	Ex/Em (nm)	Unit Size	Price
FP026	EasyProbe™ DAPI Fixed Cell Stain	358/461	10 mL	$60.00
FP027	EasyProbe™ Hoechst 33342 Live Cell Stain	350/461	10 mL	$60.00
FP028	EasyProbe™ Propidium Iodide Dead Cell Stain	535/617	10 mL	$60.00
FP029	EasyProbe™ Green 488 Live Cell Stain	500/530	10 mL	$60.00
FP030	EasyProbe™ Green 488 Dead Cell Stain	500/530	10 mL	$60.00
C009	EMA (Ethidium monoazide)	504/600	5 mg	$120.00
C010	EthD-1 (Ethidium Homodimer-1)	528/617	1 mg	$220.00
C013-1	NucGreen™ Live-cell nucleic acid stain	500/530	1 mL	$100.00
C013-2	NucGreen™ Dead-cell nucleic acid stain	500/530	1 mL	$100.00
C014	Acridine orange, 10 mg/mL	500/526 (DNA) 460/650 (RNA)	1 mL	$25.00
C056A	DRAQ5™ Fluorescent Probe	647/680	50 µL	$180.00
C056B	DRAQ5™ Fluorescent Probe	647/680	200 µL	$350.00
C056C	DRAQ5™ Fluorescent Probe	647/680	1 mL	$1200.00

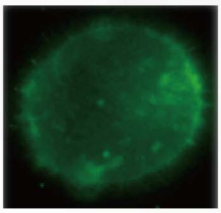








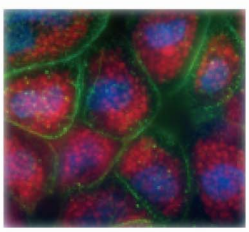
Membrane Stains



The cell membrane separates the cell from the extracellular environment, and play important roles in cell signaling pathways as well as ionic homeostasis. The membrane stains are useful markers for cell boundaries.
ABP Biosciences offers a selection of lipophilic dyes used as plasma membrane stains.

Cat. No.	Product Name	Ex/Em (nm)	Unit Size	Price
C016	DiO perchlorate	485/502	25 mg	$100.00
C017	DiI perchlorate	550/565	25 mg	$100.00
C018	DiD perchlorate	645/665	25 mg	$120.00
C019	DiR iodide	750/778	10 mg	$120.00
C020	Pluronic F-127®	-	2 g	$25.00
C021	Pluronic F-127®, 20% (w/v) in DMSO	-	1 mL	$20.00

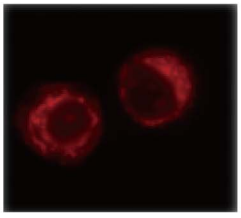
Cytosol Stains



The cytosol is the liquid found inside cells. Cytosol stains are useful probes to monitor cell morphology and location for cell proliferation and viability studies.
ABP Biosciences offers a selection of cell tracer dyes, which can freely diffuse through the membranes of live cells, and become membrane-impermeant after loading.
Our cell tracer dyes are stable and nontoxic at working concentrations, well retained in cells, and fluoresce brightly at physiological pH. These dyes are available in a wide range of emission spectra for multicolor imaging.

Cat. No.	Product Name	Ex/Em (nm)	Unit Size	Price
C022	Calcein blue, AM	360/449	1 mg	$85.00
C023	Calcein blue, AM, 1 mg/mL	360/449	500 µL	$50.00
C025	Calcein, AM	494/515	1 mg	$140.00
C026	Calcein, AM, 1 mg/mL	494/515	500 µL	$80.00
C027	BCECF	490/535	5 mg	$140.00
C028	BCECF, AM	490/535	1 mg	$140.00
C029	BCECF, AM, 1 mg/mL	490/535	500 µL	$80.00
C031	CFDA	490/520	100 mg	$100.00
C032	CFDA, SE	490/520	25 mg	$100.00
C035	CDCFDA	504/529	100 mg	$100.00
C036	CDCFDA, SE	504/529	25 mg	$100.00
C037	CellView Blue CMAC	353/466	5 mg	$100.00
C038	Monobromobimane (mBBr)	385/463	25 mg	$100.00
C039	CellView Green CMFDA	492/517	1 mg	$120.00

Mitochondria Stains

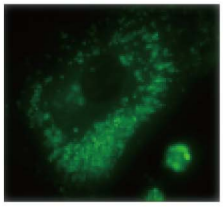


The mitochondria are membrane-bound organelles found in most eukaryotic cells, where they make up as much as 10% of the cell volume. The number of mitochondria in a cell can vary widely between organism, tissue, and cell type. The key function of mitochondria is energy production through oxidative phosphorylation and lipid oxidation.

ABP Biosciences developed a series of mito-tracker probes, which can be selectively sequestered by mitochondria in live cells based on the mitochondria membrane potential for loading. Our mito-tracker probes have a wide range of emission spectra for multicolor imaging.

Cat. No.	Product Name	Ex/Em (nm)	Unit Size	Price
C041	MitoOrange™ CMTMRos	554/575	1 mL	$120.00
C042	MitoRed™ CMXRos	580/600	1 mL	$120.00
C044	Rhodamine 123	505/534	25 mg	$120.00
C045	JC-1	514/529;585/590	1 mg	$100.00
C261	DHR 123 [Dihydrorhodamine 123]	-	10 mg	$150.00

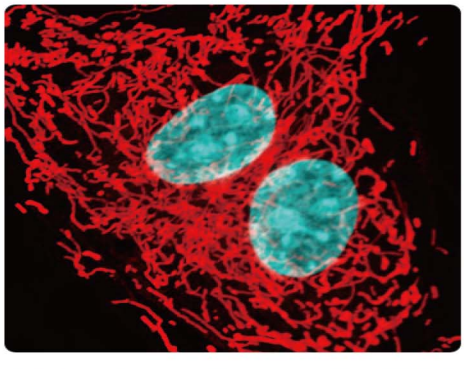
Lysosome Stains

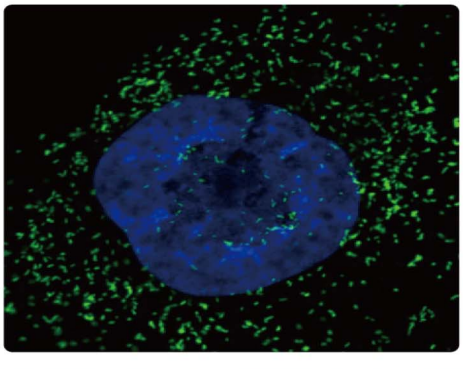


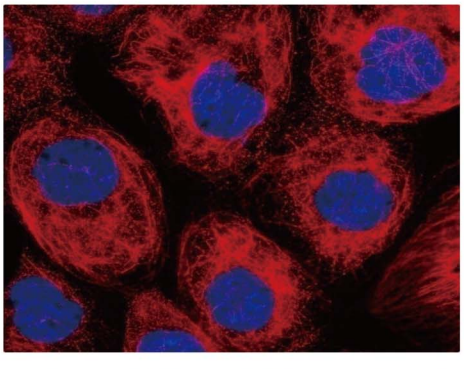
Lysosomes are membrane-bound cell organelles found in most animal cells. Lysosomes maintain an acidic environment of about pH 4.5, and contain acid hydrolase enzymes that break down waste materials and cellular debris.

ABP Biosciences offers LysoView probes that accumulate in acidic organelles. Our LysoView probes exhibit a pH-dependent increase in fluorescence intensity upon acidification.

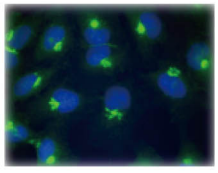
Cat. No.	Product Name	Ex/Em (nm)	Unit Size	Price
C047	LysoView Blue	370/425	1 mL	$100.00
C048	LysoView Green	443/505	1 mL	$100.00







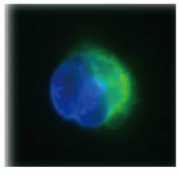
Golgi Stain



The Golgi is an organelle found in most eukaryotic cells, where proteins, lipids, and carbohydrates, are prepared for either secretion from the cell or use by other organelles within the cell. ABP Biosciences offers probes that selectively stains the Golgi complex for lipid metabolism and trafficking studies.

Cat. No.	Product Name	Ex/Em (nm)	Unit Size	Price
C049	NBD C6-Ceramide	466/536	1 mg	$120.00

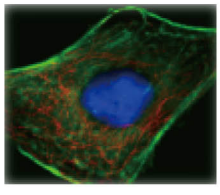
Endoplasmic Reticulum Stains



The endoplasmic reticulum (ER) is an organelle found in most eukaryotic cells, that forms an interconnected network of flattened, membrane-enclosed sacs or tubes. ABP Biosciences offers a cell-permeant probe that selectively stain the ER in live cells based on the probe concentration.

Cat. No.	Product Name	Ex/Em (nm)	Unit Size	Price
C050	DiOC6(3)	485/500	25 mg	$100.00

Cytoskeleton Stains



The cytoskeleton is an intracellular matrix that supports cell shape and function. The cytoskeleton plays important roles in organelle transport, cell division, motility, and signaling, making it central to both cell health and disease processes. ABP Biosciences offers a selection of phalloidin conjugates to label actin in fixed and permeabilized cells.

Cat. No.	Product Name	Ex/Em (nm)	Unit Size	Price
FP031	EasyProbes™ ActinGreen 488 Stain	500/525	5 mL	$150.00
FP032	EasyProbes™ ActinRed 555 Stain	555/575	5 mL	$150.00
C052	ActinGreen™ 488 stain	500/525	300 unit	$200.00
C053	ActinRed™ 555 stain	555/575	300 unit	$200.00