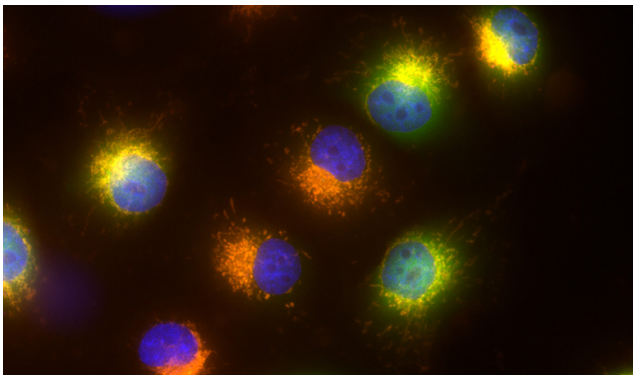
spotlight
The latest product news and updates from Vector Laboratories

New VectaCell™ products for live cell imaging

VectaCell™ Rhodamine 123

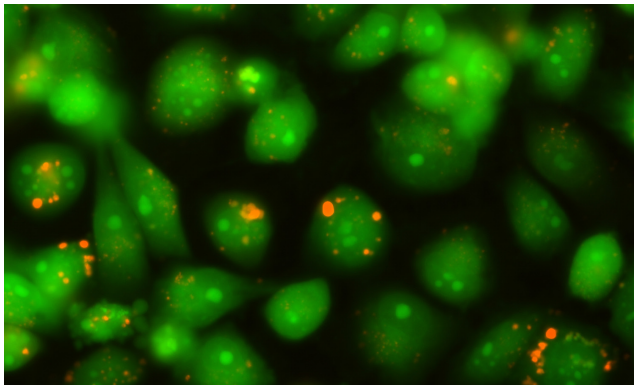


Mitochondria stained with VectaCell™ Rhodamine 123 (orange) in MCF-7 cells expressing GFP. Nuclei stained with DAPI (blue).

- A fluorescent dye used to stain active mitochondria
- Accumulates across the inner mitochondrial membrane based on membrane polarization
- Excitation peak at 505 nm and emission peak at 534 nm
- Supplied as a convenient 100x stock solution (10 ml, Cat. No. CB-2100)

VectaCell™ Acridine Orange

- A fluorescent dye used to stain acidic organelles, such as lysosomes, autosomes or yeast vacuoles in live cells
- At low pH (inside the organelles) - emits an orange fluorescence (peak at 590 nm)
- Supplied as a convenient 1000x stock solution (2 ml, Cat. No. CB-2000)



Acidic endosomes stained with VectaCell™ Acridine Orange in MCF-7 cells expressing GFP.

VectaCell™ Trolox

- An antifading additive that reduces photobleaching and blinking during live cell imaging
- Water soluble and cell permeable analog of Vitamin E
- Efficiently prevents formation of different reactive oxygen species such as singlet oxygen ($^1O_2$), superoxide anion (O_2-) or hydrogen peroxide (H_2O_2)
- Has been shown to have a cytoprotective effect and low cytotoxicity for different cell lines
- Supplied as a convenient 100 mM stock solution (2 ml, Cat. No. CB-1000)