

Cell Labeling Dyes

NEW Tools for Labeling Cells in Multiple Applications

Cell Nucleus Labeling Dyes

Nuclear RED (DRAQ5™) is an anthraquinone dye with high affinity for double-stranded DNA. It is a membrane-permeable dye that can label live or fixed/dead cells. In flow cytometry, this dye can be used to distinguish nucleated and non-nucleated cells. Nuclear RED (DRAQ5™) can also be used to report nuclear DNA content for ploidy and cell cycle analysis because it binds DNA stoichiometrically. In fluorescent microscopy, it can be used as a nuclear counterstain.

Nuclear ORANGE (CyTRAK Orange™) is another anthraquinone dye with high affinity for double-stranded DNA. It is a membrane-permeable dye that can label live or fixed/dead cells. In flow cytometry, it can be used to distinguish nucleated and non-nucleated cells. In fluorescent microscopy, it can be used to identify and discriminate the nucleus and cytoplasm without the need for a second dye due to its high intensity staining of the nucleus and low intensity staining of the cytoplasm.

eBioscience New Releases

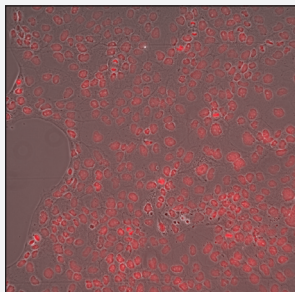
November | 2009

Cell Nucleus

FEATURING

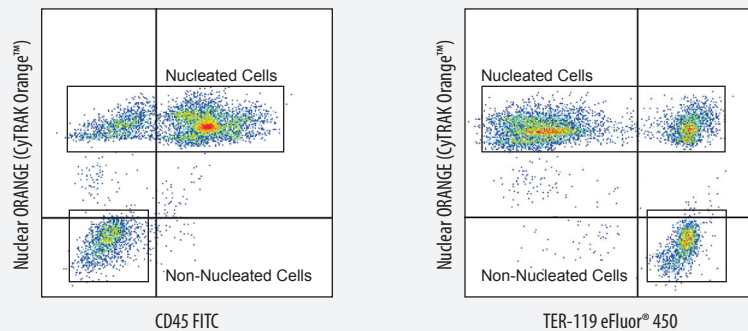
- Nuclear RED (DRAQ5™)
- Nuclear ORANGE (CyTRAK Orange™)

Nuclear RED (DRAQ5™)



Nuclear RED (DRAQ5™) staining on MDCK cells.

Nuclear ORANGE (CyTRAK Orange™)



C57Bl/6 bone marrow cells were stained with FITC anti-mouse CD45 (30-F11) (cat. no. 11-0451) (left) and eFluor® 450 anti-mouse TER-119 (cat. no. 48-5921) (right), followed by staining with 5 μ M Nuclear ORANGE (CyTRAK Orange™) for 15 minutes at room temperature. Total viable cells were used for analysis.

Cell Nucleus Labeling Dyes

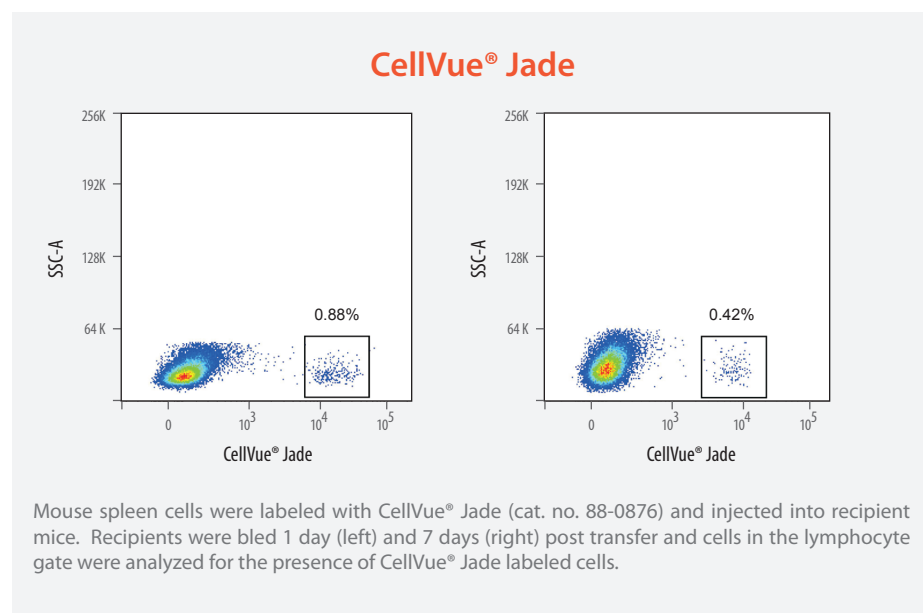
Product	Cat. No.	Application Notes	Excitation (nm)	Emission (nm)	Size
Nuclear RED (DRAQ5™)	65-0880	<ul style="list-style-type: none"> • Assess DNA ploidy/cell cycle (FC) • Discriminate nucleated from non-nucleated cells (FC) • Nuclear/cytoplasmic counterstain (IF) 	488-647	681-697	50, 200 μ l
Nuclear ORANGE (CyTRAK Orange™)	65-0881	<ul style="list-style-type: none"> • Discriminate nucleated from non-nucleated cells (FC) • Nuclear/cytoplasmic counterstain (IF) 	488-550	610	50, 200 μ l

Cell Membrane Labeling Dyes

CellVue® dyes are lipophilic dyes that can be used to label the cell membrane of live cells. Cell labeling is rapid and stable and can be combined with many fluorescently labeled antibodies and other markers of cellular function for flow cytometric analysis and fluorescent microscopy.

EACH CellVue® DYE IS SOLD IN TWO SIZES:

- Mini CellVue® Kits are supplied with one vial of dye stock (1 mM in ethanol) and one vial of Diluent C (the labeling vehicle).
- Midi CellVue® Kits are supplied with two vials of dye stock (1 mM in ethanol) and six vials of Diluent C (the labeling vehicle).



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November | 2009

Cell Membrane

FEATURING

- CellVue® Jade
- CellVue® Lavender
- CellVue® Maroon
- CellVue® Plum
- CellVue® Burgundy
- CellVue® NIR780
- CellVue® NIR815

Cell Membrane Labeling Dyes

Product	Cat. No.	Application Notes	Excitation (nm)	Emission (nm)
CellVue® Lavender	88-0873	Cannot be combined with eFluor® 450 or Pacific Blue®	420	461
CellVue® Jade	88-0876	Cannot be combined with FITC or Alexa Fluor® 488	478	508
CellVue® NIR780	88-0875	Cannot be combined with APC-eFluor® 780 or APC-Alexa Fluor® 750	633	776
CellVue® Maroon	88-0870	Cannot be combined with APC, Alexa Fluor® 700, APC-eFluor® 780	647	667
CellVue® Plum	88-0871	Cannot be combined with APC, Alexa Fluor® 700, APC-eFluor® 780	652	671
CellVue® Burgundy	88-0872	Cannot be combined with Alexa Fluor® 700, APC-eFluor® 780	683	707
CellVue® NIR815	88-0874	Useful for short-term <i>in vivo</i> tracking studies	786	814

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