

Product datasheet

CyTRAK Orange™ 50µl (5 mM) ab109203

1 Image

Overview

Product name	CyTRAK Orange™ 50µl (5 mM)
Tested applications	Suitable for: FM, Flow Cyt, ICC/IF
General notes	<p>CyTRAK Orange™ is a novel orange fluorescent dye [related to DRAQ5™ (ab108410)] that stains both nucleus and cytoplasm. It is water soluble and membrane permeant which can be used in live and fixed cells in combination with other common fluorophores, such as GFP-fusions, green-labelled antibodies (FITC or DyLight® 488) and far-red dyes. CyTRAK Orange™ preferentially stains the nucleus, but also defines the cytoplasmic area in both live and fixed preparations. CyTRAK Orange™ does the work of two fluorophores! Key features of CyTRAK Orange™ include:</p> <ul style="list-style-type: none"> Rapid staining of dsDNA/nuclei of LIVE or fixed cells Differential intensity of DNA binding and Cytoplasmic labelling - One fluorophore doing the work of two Low photobleaching effect Ideal for use with GFP, FITC & DyLight® 488 and 649 labels No lyse / no wash protocols It is membrane-permeant <p>Excitation</p> <ul style="list-style-type: none"> 457, 488 & 549 (Ex_{max} 515nm) similar profile to Propidium Iodide co-excited with FITC/Cy2/eGFP and PE-Cy7 NOT excited by UV or red lasers (e.g. 633 & 647 nm) <p>Emission (instrument dependent):</p> <ul style="list-style-type: none"> Em_{max} 615 nm No significant spectral overlap with co-excited green fluors (eGFP, FITC, Cy2) Visualize GFP-tagged temporospatial changes in live cells in a single acquisition from a 488 nm excitation

Properties

Form	Liquid
Storage instructions	Store at +4°C. Do Not Freeze. Store In the Dark.

Applications

Applications

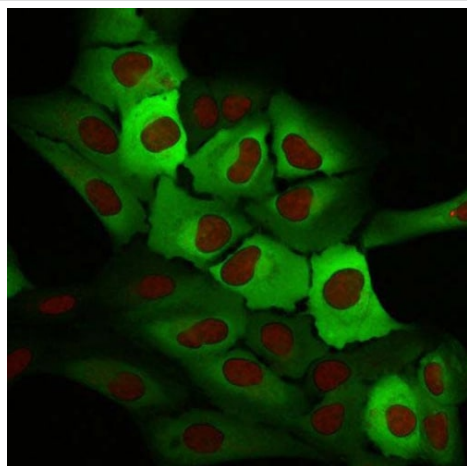
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab109203 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
FM		Use at an assay dependent concentration.
Flow Cyt		1/300 - 1/1000. For Nucleated Cell Gate = 5µM; For Discrimination of Arrested/ Senescent Cells = 15µM
ICC/IF		1/1000. For microscopy counterstain = 5µM It is highly recommended that the concentration and labelling conditions are carefully determined by each investigator for optimal performance in the assay of interest. For more specific information about the applications, please refer to the Protocol Booklet.

Images



Immunocytochemistry/ Immunofluorescence -
CyTRAK Orange™ 50µl (5 mM) (ab109203)

Live cells expressing eGFP/CyclinB1 were labelled with CyTRAK Orange™ (end concentration 20µM) for 20 minutes at 37 C, no wash. Image was captured using confocal microscopy at 488nm simultaneously: i) CyTRAK Orange™ channel - 598/40nm; ii) eGFP/CyclinB1 channel - 522/35nm

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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