

MitoTracker® Deep Red FM

500 µg
(10 x 50 µg)



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For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity	Molecular Wt.
IF-IC, F	All	543.58 g/mol

Description: MitoTracker® Deep Red FM is well retained after fixation allowing for further sample processing and immunostaining.

Excitation: 644 nm

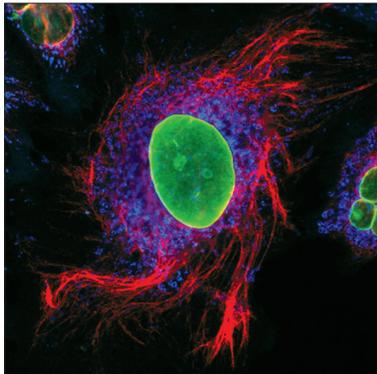
Emission: 665 nm

Background: MitoTracker® dyes are cell permeable probes that contain a mildly thiol-reactive chloromethyl moiety for mitochondrial labeling. To label mitochondria, cells are simply incubated with MitoTracker® probes, which passively diffuse across the plasma membrane and accumulate in active mitochondria.

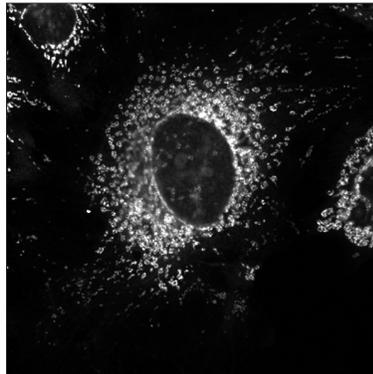
Directions for Use: Each vial of MitoTracker® Deep Red FM contains 50 µg lyophilized solid. To make a 1 mM stock solution, reconstitute the solid in 91.98 µl high quality DMSO. While the optimal staining concentration and incubation times can vary by application, typical results can be obtained by diluting the stock solution directly in growth media to a final concentration of 500 nM and incubating for 30 min at 37°C. After incubation, fix the cells in ice-cold, 100% methanol for 15 min at -20°C and rinse 3 times with PBS for 5 min. Proceed with immunostaining.

Storage: Store lyophilized solid at -20°C desiccated and protected from light. In lyophilized form, this reagent is stable for 12 months. Once reconstituted in DMSO, the solution can be stored at -20°C, protected from light and must be used within 2 weeks. Avoid freeze-thaw cycles.

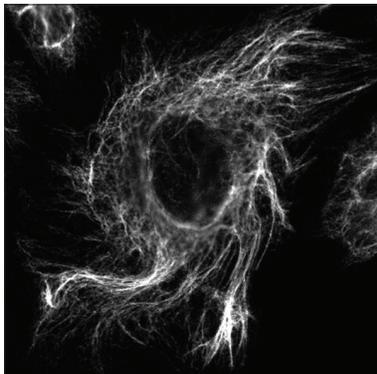
Merge



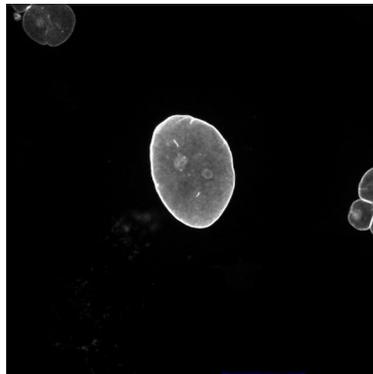
MitoTracker® Deep Red



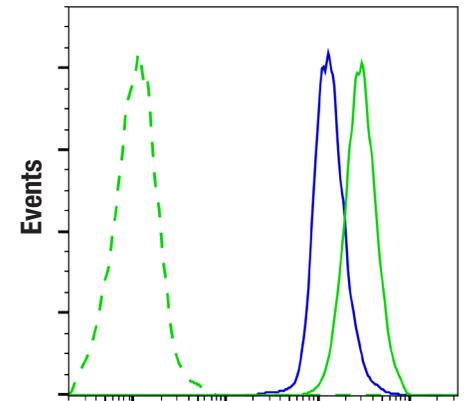
Vimentin



Lamin A/C



Confocal immunofluorescent analysis of HeLa cells using MitoTracker® Deep Red FM (blue pseudocolor), Vimentin (D21H3) XP® Rabbit mAb (Alexa Fluor® 555 Conjugate) #9855 (red), and Lamin A/C (4C11) Mouse mAb (Alexa Fluor® 488 Conjugate) #8617 (green).



MitoTracker® Deep Red FM

Flow cytometric analysis of live Jurkat cells, treated with CCCP (80 µM, 15 min; blue) or untreated (green) labeled with MitoTracker® Deep Red FM (solid lines), compared to unlabeled Jurkat cells (dashed line).

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide

Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine

Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse

All—all species expected

Species enclosed in parentheses are predicted to react based on 100% homology.