

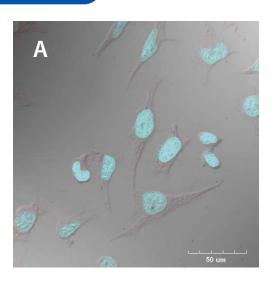


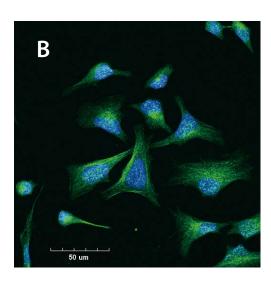
Cell Imaging Reagents

Fluorescent Stains

DAPI-2HCI [for Biochemical Research] (Blue Fluorescence) 5mg [A2412] Goat Anti-Mouse IgG FITC Conjugate (Green Fluorescence) 0.1mg/1vial [G0406]

Application





- (A) HeLa cells nuclei stained with 1 μg/mL A2412 (Blue).
- (B) The HeLa cells were incubated with the Mouse Anti α -Tubulin Antibody, followed by staining with the secondary antibody G0406 (Green) at 10 μg/mL. A2412 was used to stain the cell nuclei (Blue) at a concentration of 1 µg/mL.

Laser Scanning Microscope: Olympus FLUOVIEW FV 3000

Related Products

Goat Anti-Rabbit IgG FITC Conjugate (Green Fluorescence) 0.1mg/1vial [G0452] Goat Anti-Mouse IgM FITC Conjugate (Green Fluorescence) 0.1mg/1vial [G0453] Streptavidin FITC Conjugate (Green Fluorescence) 0.1mg/1vial [S0966] Goat Anti-Mouse IgG DTBTA-Eu³⁺ Conjugate (Red Fluorescence) 0.1mg/1vial [G0505] Goat Anti-Rabbit IgG DTBTA-Eu³⁺ Conjugate (Red Fluorescence) 0.1mg/1vial [G0506] Streptavidin DTBTA-Eu³⁺ Conjugate (Red Fluorescence) 0.1mg/1vial [S0993] ATBTA-Eu³⁺ [DTBTA-Eu³⁺ Labeling Reagent] (Red Fluorescence) 10mg [A2083] **Bisbenzimide H 33258 Hydrate** [for Biochemical Research] (Blue Fluorescence)

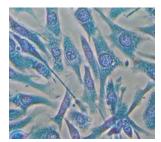
25mg [H1343]

Staining Dye Solution

Methylene Blue Solution (Methanol Solution) [for Cell Staining] 100mL [M2392]

Application

- (1) Culture cells in a 6-well plate
- (2) Remove medium from the plate and wash it with PBS(-) twice
- (3) Remove PBS(-) from it, add 1mL of M2392 and stain cells for 15 minutes
- (4) Remove M2392 from it and wash it with deionized water twice



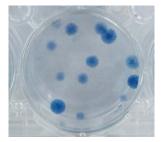


Figure. NIH/3T3 cells stained by the above method Please adjust staining time and volume according to cells. Because some cells need to be fixed separately, preliminary tests should be performed.

Cell Proliferation Assay Reagents

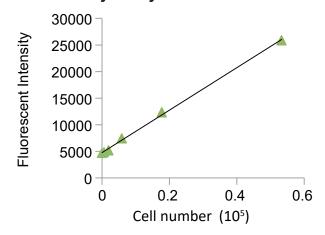
Resazurin (Ready-to-use solution) [for Cell proliferation assay]

25mL [R0195]

Resazurin can be used quantitatively determine cell proliferation, viability, and cytotoxicity. Resazurin, when added to viable cells, is reduced by the cellular enzymatic or chemical reactions converting blue/non-fluorescent resazurin to highly fluorescent resorufin.

The assay is simple to perform since the indicator is water-soluble and has low toxicity, thus eliminating the washing/fixing and extraction steps required in other commonly used cell proliferation assays.

Cell viability assay



Application

- 1. Add R0195 at a volume equal to 10% of the cell culture media volume.
- 2. Return cells to the incubator and continue the incubation for 2-24 hours*.
- 3. Measure the fluorescent intensity using 540-570 nm excitation and 590 nm emission wavelengths. Absorbance can be measured using a spectrophotometer set at 570 nm.

Resazurin may be added at any time point during the culture period. For measurement of cell proliferation, it is best to add resazurin during the log phase of growth.

Substrates for Reporter Assays

Chromogenic Substrates for β-Galactosidase

Generating insoluble dye

X-Gal 200mg / 1g [B3201]

(5-Bromo-4-chloro-3-indolyl β -D-Galactopyranoside) blue

Magenta-Gal 20mg / 100mg [B3469]

(5-Bromo-6-chloro-3-indolyl β-D-Galactopyranoside) red-purple

Bluo-Gal 20mg / 100mg [B3470]

(5-Bromo-3-indolyl β-D-Galactopyranoside) dark-blue

Salmon-Gal 20mg / 100mg [C2371]

(6-Chloro-3-indolyl β-D-Galactopyranoside) ubright red-purple

Generating soluble dye

ONPG 1g / 5g / 25g [N0418]

(2-Nitrophenyl β-D-Galactopyranoside) yellow

PNPG 1g / 5g [N0616]

(4-Nitrophenyl β -D-Galactopyranoside) **yellow**

Chromogenic Substrates for β-Glucronidase

Generating insoluble dye

X-Gluc CHA Salt 10mg / 100mg [B3620]

(5-Bromo-4-chloro-3-indolyl β -D-Glucuronide Cyclohexylammonium Salt) \blacksquare blue

X-Gluc Sodium Salt 10mg / 100mg [B3621]

(5-Bromo-4-chloro-3-indolyl β-D-Glucuronide Sodium Salt) blue

Chemiluminescent Substrates for Luciferase

D-(-)-Luciferin 10mg / 50mg [A5030]

CLA 10mg [A5307] MCLA 10mg [A5309]

FCLA Free Acid 10mg [A5310]

Red-CLA 1mg [A5311]

Chemiluminescence Reagent for the Detection of Superoxide

1g / 5g [B1203] Lucigenin

MMT [= 10,10'-Dimethyl-9,9'-biacridinium Bis(monomethyl Terephthalate)] 100mg / 1g [B4339]

MMT (B4339) is a specific probe having lucigenin-like chemiluminescence to superoxide among reactive oxygen species. Since amphiphilic MMT which is less hydrophilic than lucigenin possesses cell-permeability, MMT has been applicable for the detection of intramitochondrial superoxide production.

Application

Figure shows the localization of MMT in mitochondria.

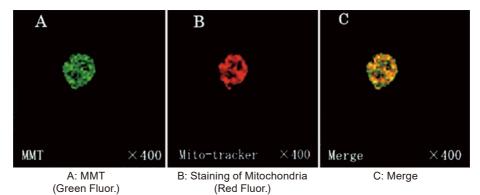


Figure. Fluorescence in mitochondria in mouse peritoneal neutrophils. (Provided by Prof. Kobayashi)

S. Sasaki, S. Yamada, M. Iwamura, Y. Kobayashi, Free Radic. Biol. Med. 2013, 65, 1005.

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