



PROTOCOLS:

Immunofluorescence microscopy

A. Cell culture and UV irradiation

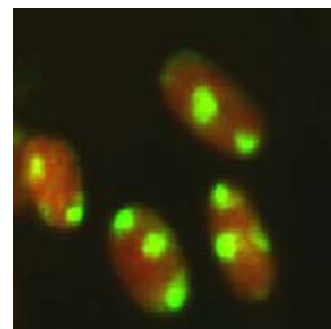
- 1) Culture the cells in the appropriate condition in 35-mm glass-bottom dishes (MatTek, Ashland, MA). (For example, inoculate 2×10^5 cells per dish, then incubate for one or two days in a CO₂ incubator.)
- 2) Wash cells once by DPBS and irradiate cells with UV [for example ; 10 J/m² of 254 nm UV for whole cell irradiation, or 100 J/m² of UV for local cell irradiation using a microfilter mask (1,5,6,9)].

B. Cell fixation and permeabilization

- 3) Pour 1 mL of 4% formalin in PBS into each dish, and fix the cells for 10 minutes at room temperature.
- 4) Wash the cells 2 times with 2 mL of DPBS.
- 5) Pour 1 mL of 0.5% Triton X-100 in PBS, and permeabilize the cells for 5 minutes on ice.
- 6) Wash the cells 2 times with 2 mL of DPBS.
(When you want to stop the experiment at this stage, please do not freeze the samples. Instead, you should cover the samples with cold PBS overnight.)

C. Indirect Immunofluorescence

- 7) Pour 2 mL of 2M HCL and denature cellular DNA for 30 minutes at room temperature.
- 8) Wash the cells 5 times with 2 mL of PBS.
- 9) Pour 2 mL of 20% FBS in PBS to prevent non-specific antibody binding.
- 10) Incubate 30 minutes at 37 °C with gentle shaking.
- 11) Wash the cells 5 times with 2 mL of PBS.
- 12) Add 70 μL of TDM-2 antibodies diluted with PBS containing 5% FBS as suggested in the **APPLICATIONS** onto the cells and incubate for 30 minutes at 37 °C with shaking (Optimization of antibody concentration or incubation condition is recommended if necessary.)
- 13) Wash the cells 5 times with 2 mL of PBS. (Subsequent steps must be done in the dark.)
- 14) Add 70 μL of 1:100 Alexa Fluor 594-F(ab')₂ fragment of anti-mouse IgG (H+L) (Molecular Probes, Cat. No. A-11020) diluted with PBS containing 5% FBS and incubate for 30 minutes at 37 °C with shaking.
- 15) Wash the cells 5 times with 2 mL of PBS.
- 16) Add 70 μL of 0.05 μg/ mL DAPI in PBS and incubate for 5 minutes at 37 °C with shaking.
- 17) Wash the cells 5 times with 2 mL of PBS.
- 18) Promptly add 20 μL of Vectashield mounting medium (Vector, Cat. No. H-1000) onto the cells, then put a cover slip on them.



Fluorescent image of localized CPDs in normal human fibroblasts. Cells were cultured in a 35-mm glass-bottom dish for 24 hours. Immediately after micropore UV irradiation (100 J/m²), cells were fixed and permeabilized. After denaturation of DNA, CPDs (yellow) were visualized using immunofluorescence with NMDND001. Nuclear DNA (red) was counterstained with propidium iodide. A filter with 3-μm pores was used.

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