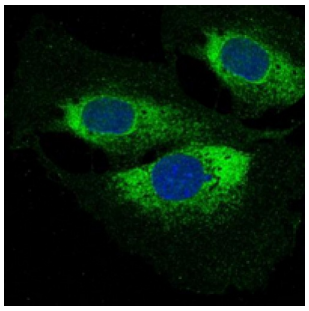
DAPI Staining Kit

Catalogue No.:abx097206



Immunofluorescent analysis staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a FITC-conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

DAPI Staining Kit for examining cellular DNA in fluorescence microscopy.

DAPI (4',6-diamidino-2-phenylindole) is a cell-permeable fluorescent stain that binds to the AT-rich regions in double-stranded DNA in both live and dead cells. The DAPI-DNA complex exhibits a light blue flourescence color with excitation light 364 nm and emission light 454 nm.

Kit Components:

- DAPI Chromogen (1 mg/ml): 100 µl
- Dilution Buffer: 4 × 25 ml

Tested Applications:	IF/ICC
Recommended dilutions:	Tissue staining: 1-2 µg/ml, Cell culture staining: 0.1-0.5 µg/ml. Optimal dilutions/concentrations should be determined by the end user.
Storage:	Store the Dilution Buffer at 4 °C and the DAPI Chromogen at -20 °C. Avoid repeated freeze/thaw cycles.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.
Directions for use:	For double or triple fluorescence staining in immunofluorescence tests, DAPI staining should be carried out after all fluorescent dye-conjugated antibodies have been incubated. Suggested Procedure: • **Tissue staining:** Add 10-20 µl of DAPI Chromagen to 10 ml Dilution Buffer and mix to prepare the diluted DAPI solution. Incubate the tissue with diluted DAPI solution for 15-30 min, then wash with PBS/TBS 3 times. Cover the sample with a cover glass and observe under a microscope. • **Cell culture staining:** Add 1-5 µl of DAPI Chromagen to 10 ml Dilution Buffer and mix to prepare the diluted DAPI solution. Incubate cells with diluted DAPI solution for 15-30 min at 30 °C. Cover the sample with a cover glass and observe under a microscope.

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