PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.

DAPI Staining Kit

Cat No.: BD5010

Introduction

DAPI (4',6-diamidino-2-phenylindole) is a cell permeable fluorescent minor groove-binding probe for DNA. It binds to the double-stranded DNA (especially to AT rich DNA), and forming a stable fluoresces complex. DAPI throughout the live and dead cell membrane that can be utilized for DAN detect for chromosome DAN, Yeast DNA, chloroplast DNA, Virus DNA and so on. DAPI-DNA complex shows light blue flourescence color with excitation light 364 nm and emission light 454 nm.

Reagents

A: DAPI Chromogen (1mg/ml)	100ul
B: Dilution Buffer	100ml

Application

This product is 1mg/ml Chromogen. Solute it with suitable density for applies. Recommend density for tissue staining is 1-2 ug/ml（on the 0.5ug/ml, flourescence become light saturation）. For cell culture the density is 0.1ug/ml.

Storage & Shelf life

Store at 2-8℃ for short time; -20℃ for long time. Each component is stable for up to 12 Months.

Procedure

1. For double or triple fluorescence staining in immunofluorescence tests, the DAPI staining is the last step after all fluorescence antibodies incubation;
2. For tissue cell staining, apply 10-20 ul Chromogen to 10 ml Dilution Buffer in tube and mix (the end density is 1-2ug/ml); incubate the tissue with DAPI buffer about 15-30min, at 30℃; and then wash it with PBS/TBS for 3 times;
3. For culture cell, the DAPI density is 0.5ug/ml (apply 5 ul Chromogen to 10 ml Dilution Buffer) may be suitable; incubate the cell with DAPI buffer about 15-30min, at 30℃;
4. Cover the microscope cover glass for observation (NOTE: It's better for observation and operation when the section is dried in no dark box before adding anti-fading buffer).

NOTE

1.The Hoechst 33342 is faded with light, all experiment process need keep away from light;

2.The Hoechst 33342 is suspected carcinogens, operation with gloves.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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