Fluoroshield Mounting Medium With DAPI is an aqueous mounting medium for preserving fluorescence of tissue and cell smears. This unique formula prevents rapid photobleaching of FITC, Texas Red, AMCA, Cy2, Cy3, Cy5, Alexa fluoro 488, Alexa fluoro 594, Green fluorescent protein (GFP), tetramethyl rhodamine, Redox. Phycoerythrin (RP-E), Phyocyanin (PC), and Allophycocyanin (APC).

Fluorescence is retained during prolonged storage at 4°C in the dark. This medium does not contain phenylenediamine, which destroys immunofluorescence of Cy dyes, RP-E, PC and APC.

This mounting medium is fortified with DAPI which is a counter-stain for DNA. This product is to be used in situ hybridization techniques or other methods where fluorescence of DNA staining is required. DAPI excites at 360nm and emits at 460nm, producing a blue fluorescence. RNA is also stained with DAPI.

May encounter problems with FROZEN BRAIN OR OTHER FROZEN TISSUES WITH LOTS OF FAT.

Procedure

Bring the vial to room temperature.
Rinse slide to be mounted with distilled or deionized, touch the edges of slide on a paper towel to remove excess water. Place slides on a flat surface.
Turn the vial upside down and open the dropper to remove any air bubbles.
Apply 3-4 drops of mounting medium directly on top of the specimen and spread out evenly by tilting slide back and forth or spread evenly with a 0.2 ml plastic pipette tip making sure the tissue is not touched. Excess medium can be removed by touching the edges of slide against paper towel.
Let stand at room temperature for about 5 minutes.
Apply cover slip carefully avoiding air bubbles.
The specimen is ready for visualization under a microscope.

One can seal the edges of cover slip with nail polish, any organic medium or our Organo mounting medium (ab104141). If a coverslip is not sealed air bubbles will appear in few days.
For storage it is recommended that the slide be stored in the dark at 2-8°C.

Removal of Coverslip
Coverslip can be removed before sealing the edges. Soak slide in warm (37°C) distilled or deionized water for several minutes. Carefully and slowly move the coverslip. Soak in water for an additional few minutes to remove coverslip. Rinse slide several times with warm water to remove all mounting medium. The slide can be remounted again.
Properties

Storage instructions  Store at +4°C. Do Not Freeze. Store In the Dark.

Storage buffer  Preservative: 0.05% Sodium azide
Constituents: 84% Water, 0.0002% DAPI, 0.5% Proprietary component

Applications

Our Abpromise guarantee covers the use of ab104139 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Images

Adult mouse testes were fixed with 4% paraformaldehyde. Tissue was embedded in O.C.T. and frozen. 5 micron sections were cut and transferred to slides. Sections were permeabilized with 0.1% Triton X-100 in PBS and stained with undiluted Fluoroshield Mounting Medium with DAPI (ab104139).

Immunohistochemistry (Frozen sections) - Fluoroshield Mounting Medium With DAPI (20ml)
(ab104139)
This image is courtesy of an abreview submitted by Bryan Niedenberger.
ab104139 worked exactly as it should in resin sections and stained heterochromatic areas of the nucleus.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"