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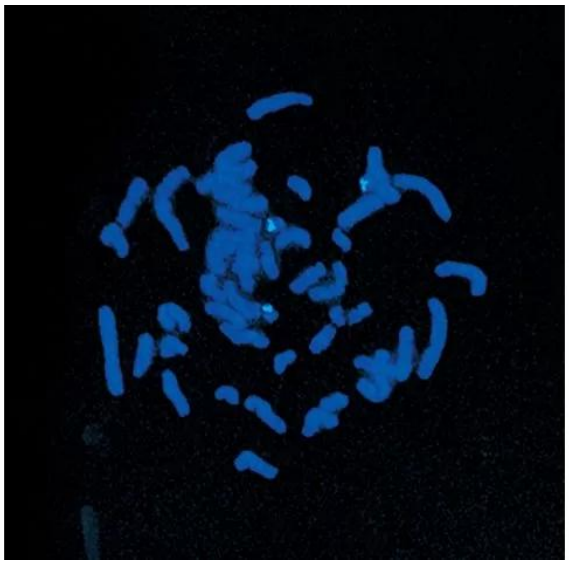
# VECTASHIELD ANTIFADE MOUNTING MEDIUM WITH DAPI

**SKU:** H-1200-10



## DESCRIPTION

VECTASHIELD Antifade Mounting Medium with DAPI is a unique, stable formula for preserving fluorescence. This medium inhibits rapid photobleaching of fluorescent proteins and fluorescent dyes. VECTASHIELD Mounting Medium with DAPI does not solidify, but remains a liquid on the slide and can be stored without sealing.

**Features:**

- Ideal refractive index
- Ready to use
- No warming necessary
- Can be stored without sealing for long term analysis
- Easy to use

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# SPECIFICATIONS

| | |
|---|---|
| **Antifade** | Yes |
| **Counterstain** | DAPI (blue fluorescence) |
| **Mounting Medium Type** | Aqueous (Non-Hardening) |
| **Unit Size** | 10 ml |
| **Applications** | Immunofluorescence, In situ hybridization, Cellular Imaging |
| **Cellular Stain** | Nucleus |

# TECHNICAL INFORMATION

VECTASHIELD Mounting Media are compatible with a wide array of fluorochromes, enzymatic substrates, and fluorescent proteins. For more information about the compatibility of

VECTASHIELD products, please consult the VECTASHIELD® Mounting Medium Compatibility table.

All formulations of VECTASHIELD Antifade Mounting Media are available with or without the counterstain DAPI (4′, 6-diamidino-2-phenylindole), which produces a blue fluorescence when bound to DNA with excitation at about 360 nm and emission at 460 nm. If desired, the concentration of DAPI can be reduced by mixing with the corresponding VECTASHIELD Mounting Medium (without DAPI).

If desired, coverslips can be sealed around the perimeter with nail polish or a plastic sealant. Mounted slides should be stored at 4 °C, protected from light.

The refractive index for VECTASHIELD Mounting Medium is 1.45.

## VECTASHIELD Mounting Medium Antifade Comparison

Other manufacturers measure the antifade properties of their mountants using labeled microspheres or arrayed spots. Vector Labs prefers to measure antifade properties of VECTASHIELD mountants using frozen tissue sections immunohistochemically stained with fluorescently labeled secondary antibodies. Antifade capability is then measured using a 40x objective with real time imaging over 30 seconds of continuous exposure to the excitation illumination. Individual intensity measurements are recorded from 6 separate labeled regions and the average is calculated. The intensity after 30 second exposure is expressed as a percentage of the intensity at zero time. The values for PG are taken from the manufacturer s

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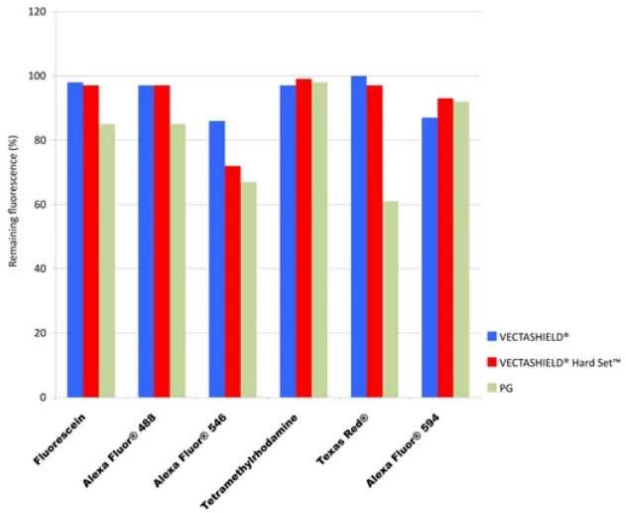
published results.

| Product | Counterstain | Catalog Number | Unit Size | Hardening | Refractive Index |
|---|---|---|---|---|---|
| VECTASHIELD Antifade Mounting Medium | None | H-1000 | 10 ml | No | 1.45 |
| | DAPI | H-1200 | 10 ml | No | 1.45 |
| | PI | H-1300 | 10 ml | No | 1.45 |
| VECTASHIELD PLUS Antifade Mounting Medium | None | H-1900 | 2 ml, 10 ml | No | 1.45 |
| | DAPI | H-2000 | 2 ml, 10 ml | No | 1.45 |
| VECTASHIELD HardSet Antifade Mounting Medium | None | H-1400 | 10 ml | Yes | 1.36 (initial) 1.46 (cured) |
| | DAPI | H-1500 | 10 ml | Yes | 1.36 (initial) 1.46 (cured) |
| | TRITC-Phalloidin | H-1600 | 10 ml | Yes | 1.36 (initial) 1.46 (cured) |
| VECTASHIELD Vibrance Antifade Mounting Medium | None | H-1700 | 2 ml, 10 ml | Yes | 1.38 (initial) 1.47 (cured) |
| | DAPI | H-1800 | 2 ml, 10 ml | Yes | 1.38 (initial) 1.47 (cured) |

## Additional Properties of VECTASHIELD Antifade Mounting Medium




**VECTASHIELD® Mounting Medium Antifade Properties**

| Fluorescent Dye | Remaining Fluorescence (%) |
|---|---|
| DyLight® 488 | 92% |
| Alexa Fluor® 488 | 97% |
| Fluorescein | 98% |
| Alexa Fluor® 546 | 86% |
| DyLight® 549 | 96% |
| Tetramethylrhodamine | 97% |
| Cy™ 3 | 94% |
| DyLight® 594 | 96% |
| Alexa Fluor® 594 | 87% |
| Texas Red® | 100% |
| DyLight® 649 | 94% |

Antifade properties are measured using frozen tissue sections immunohistochemically stained with fluorescently labeled secondary antibodies. Antifade capability is measured using a 40x objective with real time imaging over 30 sec of continuous exposure to the excitation illumination. Individual intensity measurements are recorded from 6 separate labeled regions and the average is calculated. The intensity after 30 sec exposure is expressed as a percentage of the intensity at zero time. Absence of a particular fluorochrome does not indicate incompatibility.

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Check out this video on coverslipping tips for immunofluorescence slide mounting.

## CITATIONS

## CITATIONS

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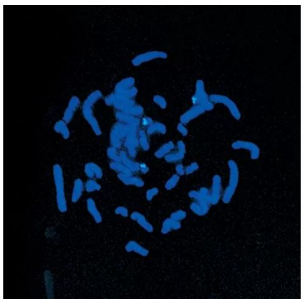
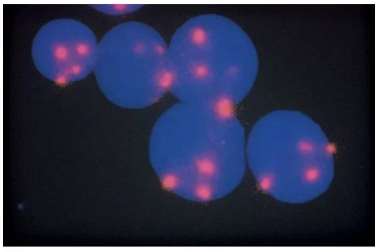
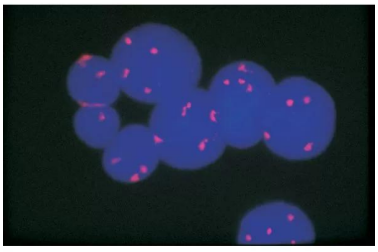
## DOCUMENTS

- VECTASHIELD Fluorochrome Compatibility
- User Guide
- In Situ Hybridization Detection Protocol
- Safety Data Sheet
- Download CoA
- Datasheet

## GALLERY IMAGES



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