

# VECTASHIELD® Antifade Mounting Media



Together we breakthrough™

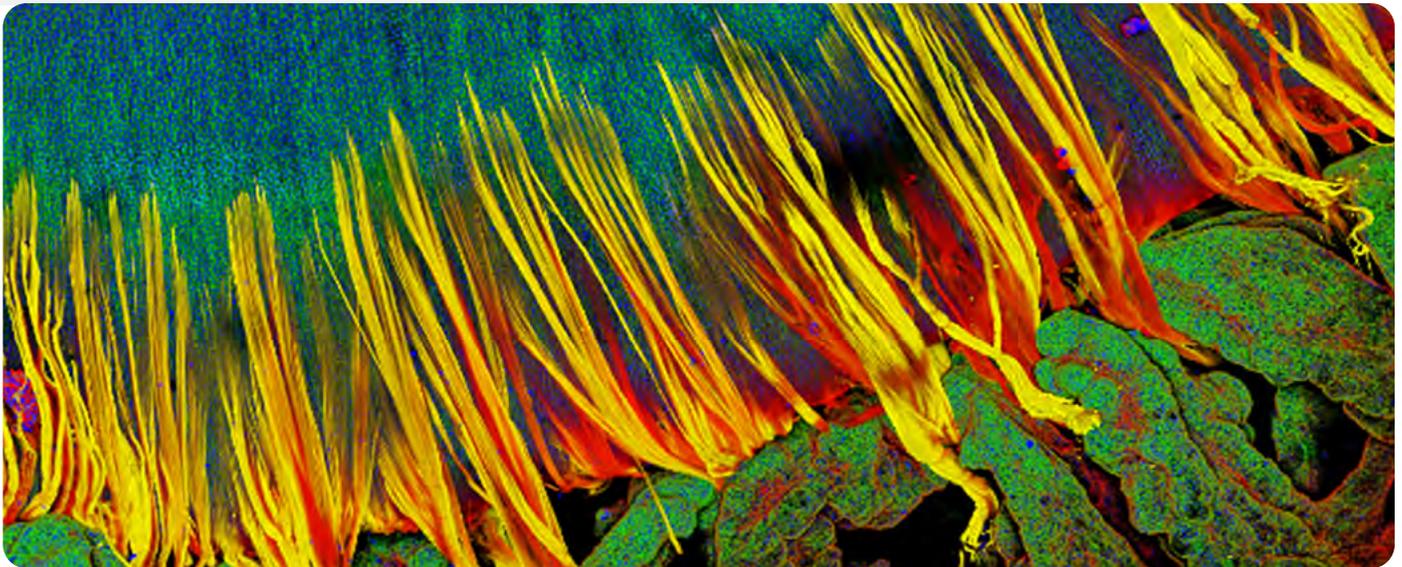
Unsurpassed antifading properties

Choosing an effective mounting medium is especially important for immunofluorescence imaging. Fluorophores are susceptible to photobleaching and fading from both the imaging excitation light and during storage. The right mounting medium will protect your samples for short- and long-term use and archiving.

VECTASHIELD® Antifade Mounting Media formulations offer unsurpassed protection against fading and photobleaching. The VECTASHIELD, VECTASHIELD PLUS, VECTASHIELD Vibrance®, and VECTASHIELD HardSet™ Antifade Mounting Media are well-established, market-leading products that complete the workflow and provide excellent signal retention for image acquisition and specimen archiving.

## Key Advantages

- ✓ Inhibits photobleaching of most fluorophores, dyes, fluorescent proteins and stains
- ✓ Ideal refractive index
- ✓ Ready to use, no warming necessary
- ✓ Continues to inhibit photobleaching even after prolonged storage of mounted slides
- ✓ Easy-to-use
- ✓ With or without nuclear or cytoskeletal counterstain
- ✓ Hardening or non-hardening formulations



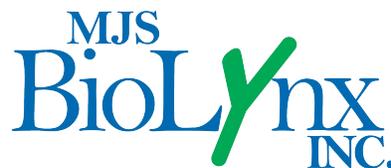
*This image shows a 3D reconstruction of a confocal z-stack through a human lens with attached ciliary body and zonules. The zonules are stained with rhodamine labeled wheat germ agglutinin (red) and microfibril-associated glycoprotein MAGP-1 (yellow). The ciliary body (foreground) and the lens (behind the zonules) are stained with phalloidin (F-actin, green). Coverslipped using VECTASHIELD Antifade Mounting Medium with DAPI (nuclei, blue). Image courtesy of Dr. Catherine Cheng, The Scripps Research Institute, USA.*



## VECTASHIELD Antifade Mounting Media

The MOST widely referenced antifade mounting media!

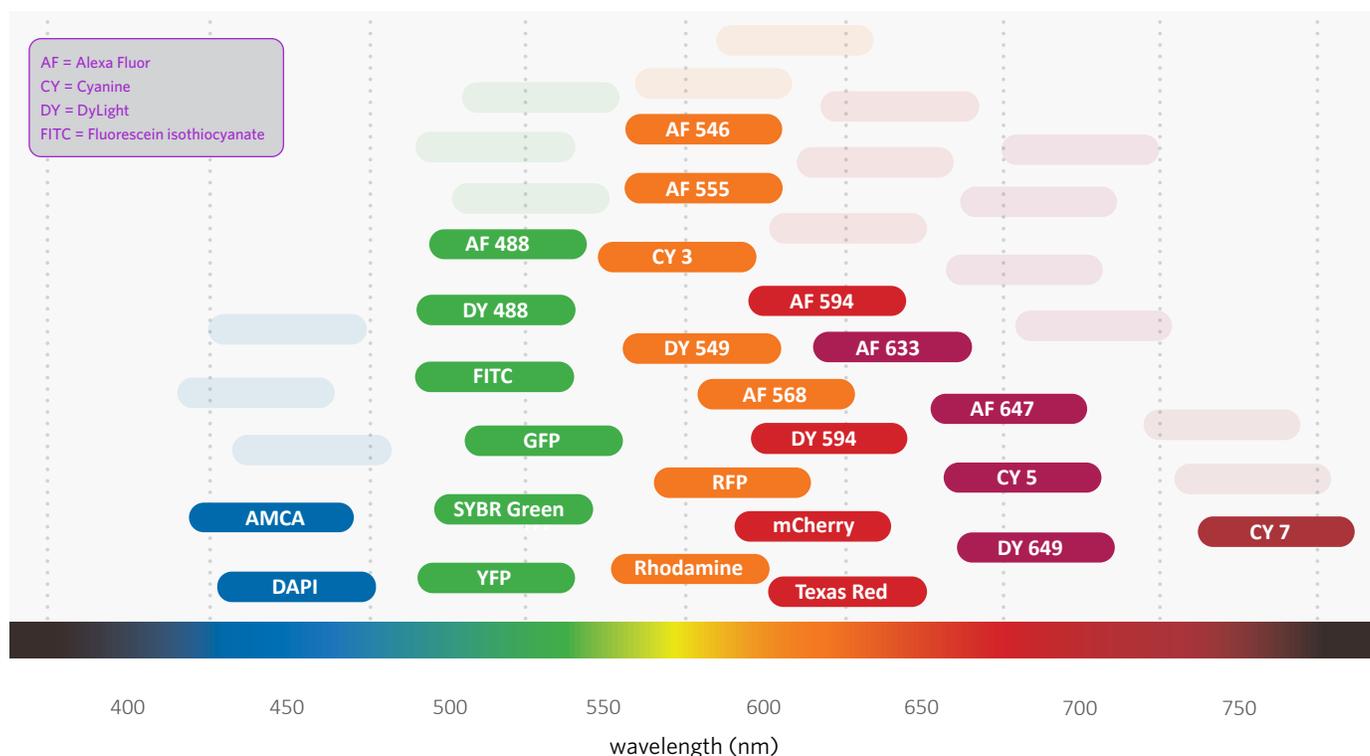
*Available in Canada from...*



# VECTASHIELD Mounting Media and Fluorophore Compatibility

VECTASHIELD Mounting Media are the most widely referenced antifade mounting media for immunofluorescence applications. Currently over 60,000 published references cite using VECTASHIELD Mounting Media and describe compatibility with over 130 fluorophores and fluorescent markers. This data underscores the prominence of VECTASHIELD reagents in this application.

The graphic below highlights the most commonly referenced fluorophores used in combination with VECTASHIELD Antifade Mounting Media.



The fluorescent compounds listed in the table below are select reagents that are also cited as being successfully used in combination with VECTASHIELD Antifade Mounting Media. The range of these compounds, from traditional to contemporary, across a broad spectral range, and used in an array of applications, showcase the versatility of VECTASHIELD reagents. Over 130 fluorophores and fluorescent markers have been used with VECTASHIELD products please see a the complete [Compatibility List](#) available on our website.

Fluorophore				
acridine orange	coumarin	Fluoro-Jade®	NeuroTrace®	Quantum dot/Qdot
Alexa Fluor 350	dihydroethidium	Lucifer yellow	Nile red	SYTOX® Green
Alexa Fluor 680	DRAQ5™	LysoTracker®	Oil red O	TAMRA
Atto® dyes	Evans blue	LysoTracker® Red	Pacific Blue™	thioflavin s
BODIPY®	fast blue	MitoTracker® Red	PicoGreen®	TOTO®-3



## VECTASHIELD Antifade Mounting Medium

VECTASHIELD Antifade Mounting Medium is a glycerol-based, aqueous mountant that remains a viscous liquid on the slide rather than solidifying. After mounting, cover-slipped slides will not readily dry out, enabling you to review them for weeks without the need for sealing. For prolonged storage, coverslips can be permanently sealed with nail polish applied on the coverslip perimeter.

## VECTASHIELD PLUS Antifade Mounting Medium

VECTASHIELD PLUS is a new formulation of non-setting media that improves upon the original VECTASHIELD products. Specifically, VECTASHIELD PLUS exhibits no inherent background or toning and provides superior fluorophore signal retention across the spectrum, including far-red wavelengths.

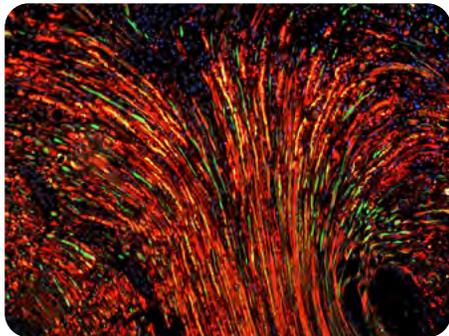
## VECTASHIELD HardSet Antifade Mounting Medium

VECTASHIELD HardSet Antifade Mounting Medium is an aqueous mountant that hardens at room temperature in as little as 20 minutes. This mounting medium provides easy slide handling, eliminates the need to secure the coverslip with nail polish, and is convenient for use with oil immersion microscopy. Available with or without DAPI or TRITC-phalloidin counterstain.

## VECTASHIELD Vibrance Antifade Mounting Medium

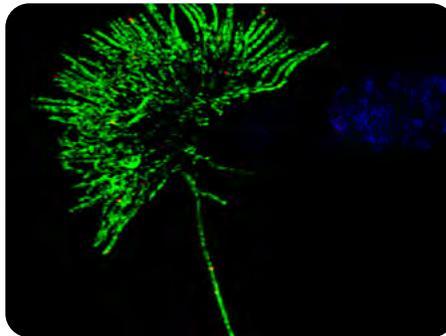
VECTASHIELD Vibrance Antifade Mounting Medium is an aqueous mountant that hardens at room temperature in as little as 20 minutes. This mounting medium provides easy slide handling, eliminates the need to secure the coverslip with nail polish, and is convenient for use with oil immersion microscopy. Available with or without DAPI counterstain.

### Tissue Sections



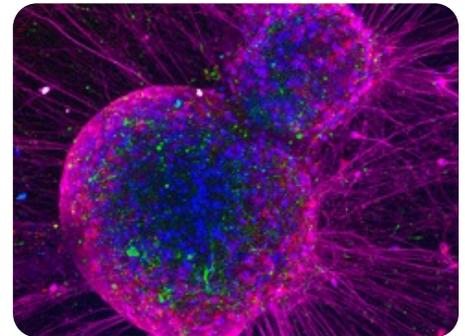
*Rat muscle (FFPE): GFAP (red) and NF200 (green). Counterstained and coverslipped with VECTASHIELD Mounting Medium with DAPI (blue). The double IF was performed by Dr. Lynn Dong, Dept of Biomedical Sciences, College of Veterinary Medicine, Cornell University, Ithaca, NY, USA.*

### Super Resolution



*Structured illumination super resolution photomicrograph of a ciliated bovine airway epithelial cell labeled for acetylated alpha tubulin (cilia marker; green), and phosphodiesterase 5 (red). Coverslipped using VECTASHIELD HardSet Antifade Mounting Medium with DAPI (nuclei, blue). Sample prepared and image taken by Michael E. Price, University of Nebraska Medical Center. With assistance of Janice A. Taylor and James R. Talaska, Advanced Microscopy Core Facility, University of Nebraska Medical Center, NE, USA.*

### Cell Culture



*Human embryonic stem cell (hESC)-derived neurons stained with Brn3a (Green), Peripherin (Red), Beta-3 Tubulin (Magenta). Coverslipped using VECTASHIELD Antifade Mounting Medium with DAPI (nuclei, blue). Image courtesy of Michael Yee, Kinchington Lab, Department of Ophthalmology, University of Pittsburgh, USA.*

Product	No Counterstain	With DAPI Counterstain	With PI Counterstain	TRITC-Phalloidin
VECTASHIELD® Antifade Mounting Medium (non-hardening)	H-1000	H-1200	H-1300	
VECTASHIELD® PLUS Antifade Mounting Medium (non-hardening)	H-1900	H-2000		
VECTASHIELD® HardSet™ Antifade Mounting Medium (hardening)	H-1400	H-1500		H-1600
VECTASHIELD Vibrance® Antifade Mounting Medium (hardening)	H-1700	H-1800		

