PRODUCT INFORMATION

VECTASHIELD Vibrance®

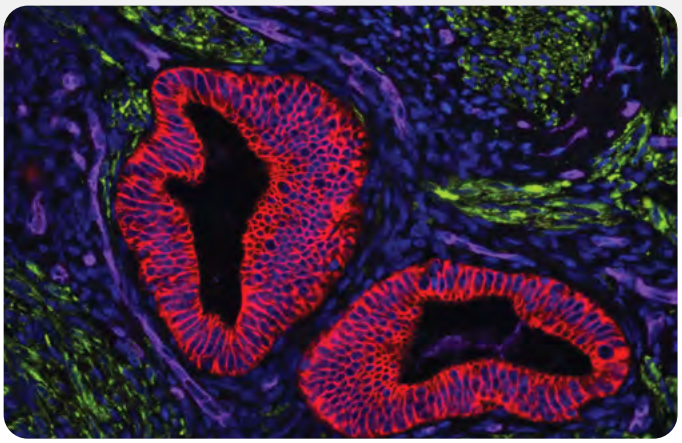
Antifade Mounting Media

vector LABORATORIES

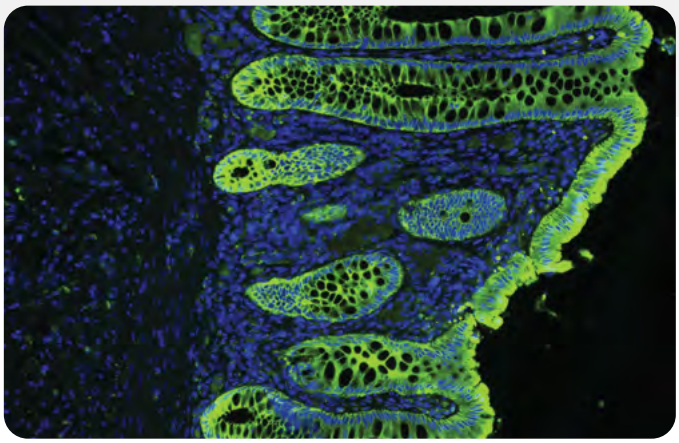
Together we breakthrough™

Introducing VECTASHIELD Vibrance Antifade Mounting Media

VECTASHIELD Vibrance Antifade Mounting Media are completely **new formulations** of curing antifade mounting media for immunofluorescence applications. These newest additions to our VECTASHIELD portfolio were developed with customer feedback to improve on parameters such as ease of use and retention of specific staining intensity over time. VECTASHIELD Vibrance Antifade Mounting Media are new tools to help investigators see more and do more with each experiment.



Human uterine section (FFPE): Stained for desmin (green) and cytokeratin (red) using VectaFluor™ Duet Double Labeling Kit (DK-8828), and vasculature using DyLight™ 649 UEA I lectin (DL-1068, purple). Mounted in VECTASHIELD Vibrance Antifade Mounting Medium with DAPI (H-1800, blue) .



Human colon section (FFPE) stained for cytokeratin (green) using fluorescein anti-mouse IgG secondary antibody (FI-2000). Mounted in VECTASHIELD Vibrance Antifade Mounting Medium with DAPI (H-1800, blue).

Why VECTASHIELD Vibrance Mounting Media?

- ✓ Superior antifade/anti-photobleaching properties across the spectrum
- ✓ Compatibility with commonly used fluorophores
- ✓ View sections one hour after mounting
- ✓ No tone or autofluorescent background, even after curing
- ✓ Room temperature storage of slides with extended archiving time
- ✓ Minimal bubble formation, even after several weeks storage
- ✓ Curing formulations with choice of counterstain (DAPI) or no counterstain
- ✓ 12 month product expiration date from date of shipping

Plus the same features you have come to expect of the VECTASHIELD brand:

- ✓ Ideal refractive index
- ✓ Easy to use
- ✓ Ready to use, requires no warming
- ✓ No sealing of coverslips required (curing formulations)

VECTASHIELD Vibrance

A Brilliant Solution for Fluorescence Signal Retention!

Available in Canada from...

MJS BioLynx INC.

1-888-593-5969 • www.biolynx.ca • tech@chromspec.com

vectorlabs.com

VECTASHIELD Vibrance Antifade Mounting Media

Easy Application and Use of VECTASHIELD Vibrance

Step 1

Immunofluorescent staining of tissue sections is completed.

Step 2

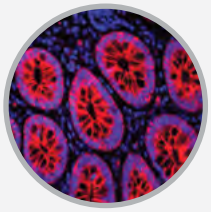
VECTASHIELD Vibrance Antifade Mounting Media is applied with coverslip.

Step 3

Wait time of only one hour to achieve optimal conditions for signal retention and partial curing.

Step 4

Visualization of specimen under fluorescence microscope using appropriate excitation and emission filters.



Step 5

Archiving of specimen. Store slides at room temperature (~25 °C) in appropriate slide container for extended periods without loss of signal intensity, retraction of media or bubble formation. No need to seal coverslips.

Excellent Antifade Properties Across the Spectrum, with Commonly Used Fluorophores

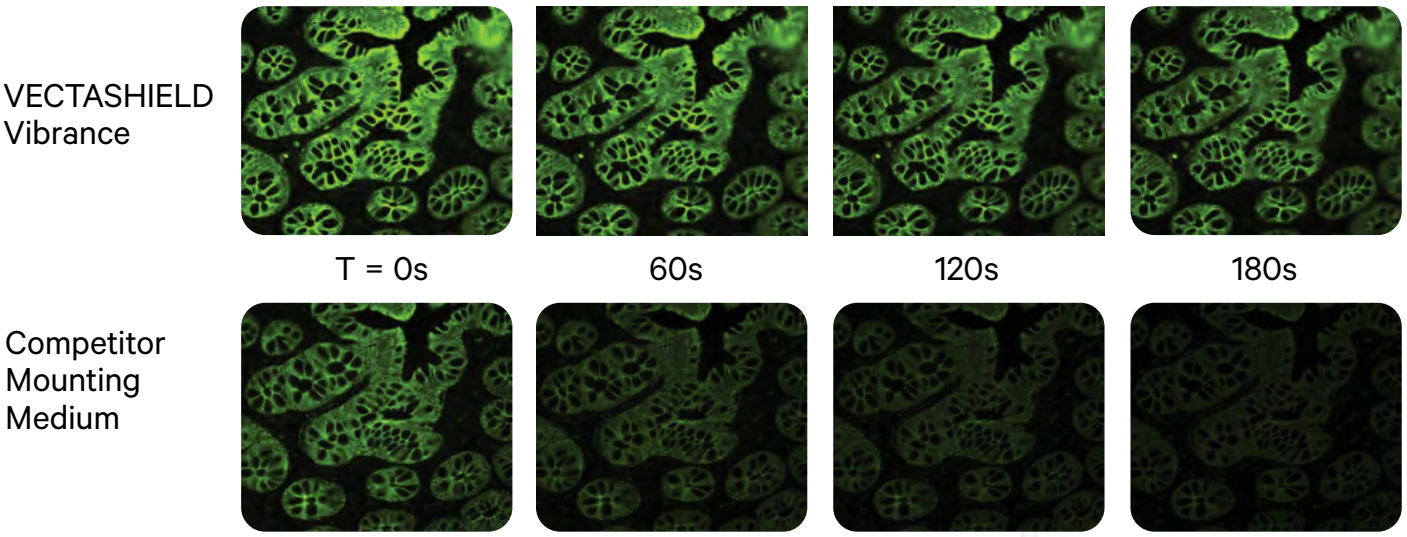
VECTASHIELD Vibrance Antifade Mounting Media provide excellent protection against fading across the visible spectrum, even under far-red wavelengths. They are compatible with most commercially available fluorophores.

Fluorophore	Excitation/Emission (nm)	VECTASHIELD Vibrance (H-1700)	VECTASHIELD Vibrance With DAPI (H-1800)
Fluorescein	495/515	++++	++++
Alexa Fluor™ 488	490/525	+++	+++
DyLight 488	493/518	+++	+++
CY3	550/570	++++	++++
Alexa Fluor 594	590/617	++++	++++
DyLight 594	593/618	++++	++++
CY5	649/670	++++	++++
Alexa Fluor 647	650/665	++++	++++
DyLight 649	652/672	++++	++++

Retention of signal strength after mounting +++ Excellent ++++ Superior

Viewable in as Little as One Hour After Mounting—No Need to Wait 24 hours

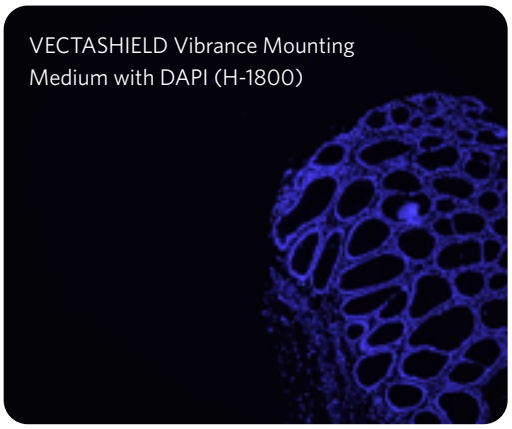
Competitor immunofluorescence workflows recommend slides be viewed 24 hours after mounting. VECTASHIELD Vibrance Antifade Mounting Media, however, allow same-day viewing to accelerate discovery without sacrificing signal intensity or retention.

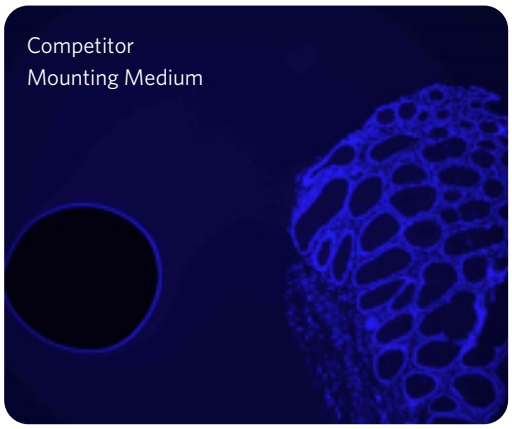


Improved retention of fluorescence with VECTASHIELD Vibrance Antifade Mounting Medium. Serial sections of human colon tissue (FFPE) stained for cytokeratin (mouse primary antibody AE1/AE3) and detected with fluorescein-conjugated horse anti-mouse IgG secondary antibody (FI-2000). One hour after mounting with either VECTASHIELD Vibrance (top row) or a competitor mounting medium (bottom row) the sections were imaged at the intervals indicated. Note the improved retention of fluorescent signal for sections mounted with VECTASHIELD Vibrance Antifade Mounting Medium.

Extended archiving of mounted sections at room temperature...

Archiving fluorescently stained sections at room temperature often leads to signal reduction and dessication of the specimen. Slides mounted with VECTASHIELD Vibrance Antifade Mounting Medium, however, can be stored for weeks at ambient temperature in standard slide boxes with no loss of specific signal intensity or specimen integrity. The stabilizing effect of VECTASHIELD Vibrance Antifade Mounting Medium provides greater flexibility for imaging and storing fluorescently stained samples.



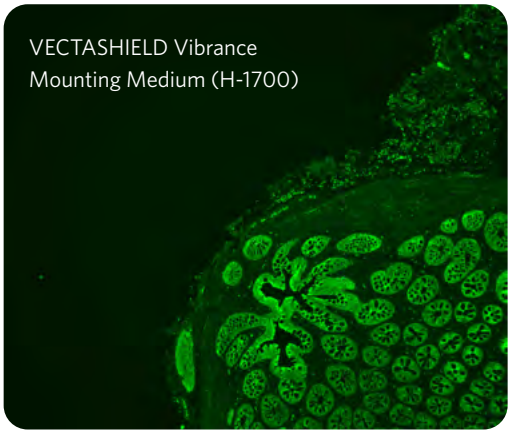


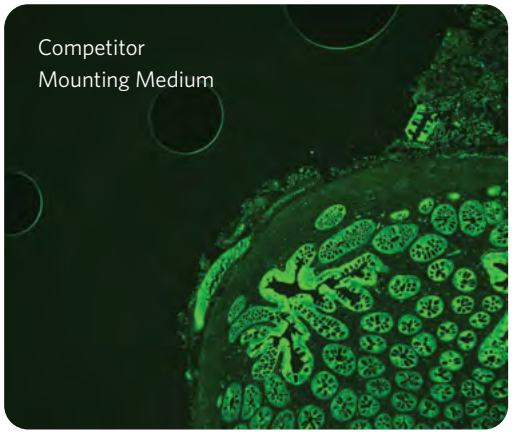
Serial sections of human colon tissue (FFPE) mounted with either VECTASHIELD Vibrance Antifade Mounting Medium with DAPI (H-1800, left image) or competitor mounting medium with DAPI (right image), each stored at room temperature for two weeks and then imaged.

Note absence of bubbles and background in blue spectrum in left image using VECTASHIELD Vibrance Antifade Mounting Medium with DAPI compared with right image, after two weeks at room temperature.

... with no specimen obscuring retraction or bubble formation

Another problem commonly observed in immunoflourescence staining is the formation over time of bubbles under the coverslip or shrinking (retraction) of the medium. This phenomenon detracts from the overall quality of the sections and can obscure specific staining. The unique formulation of VECTASHIELD Vibrance Antifade Mounting Medium provides a uniform sheet of medium under the coverslip with essentially no bubble formation or retraction—even after many weeks of storage at room temperature.





Serial sections of human colon tissue (FFPE) stained for cytokeratin (AE1/AE3, mouse primary) followed by Alexa Fluor™ 488 anti-mouse IgG secondary antibody. Sections were mounted with either VECTASHIELD Vibrance Antifade Mounting Medium (H-1700, left image) or competitor mounting medium (right image) stored at room temperature for two weeks and then imaged.

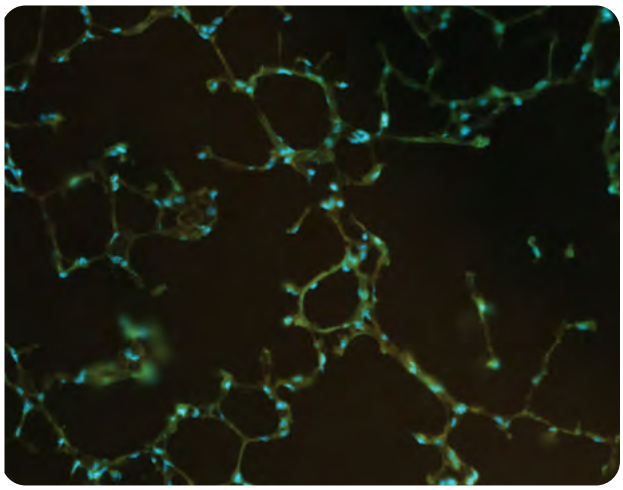
Customer Testimonials

Dr. Laura West

Department of Infection Immunity and Cardiovascular Disease (IICD)Faculty of Medicine, Dentistry & Health, University of Sheffield

" The new Vectashield mountant is great! The clarity of image was fantastic and the fluorescence was maintained across all 3 channels, despite relatively long exposures.... The DAPI seemed to be slightly more vibrant than the traditional Vectashield and gave no background fluorescence. It's also very easy to use and my slides remained remarkably clean."

– Dr Laura West



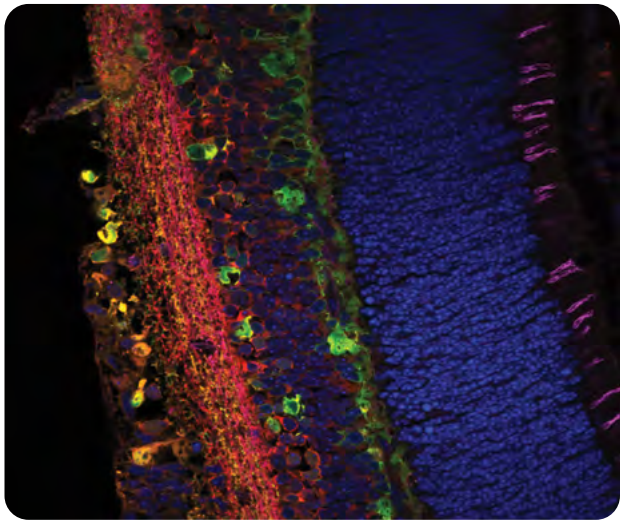
Combined 3 channel image of GFP and RFP co-expressed in mouse lung tissue mounted with VECTASHIELD Vibrance Mounting Medium with DAPI (blue).

Dr. Jennifer Kielczewski

Staff Scientist
National Eye Institute

" I noticed that this VectaShield was easier to apply and coverslip without many bubbles and there were no bubbles once it set. My slides have been at 4 degrees for 2 weeks and the signal is still maintained."

– Dr. Jennifer Kielczewski



Confocal image of mouse retina stained for synapsin (red) calbindin (green), biotinylated PNA lectin detected with streptavidin 633 (magenta) and mounted with VECTASHIELD Vibrance Mounting Medium with DAPI (blue).

Summary of VECTASHIELD Vibrance Advantages Over Competitor Mounting Media

	Antifade protection for all fluorophores	Slides can be viewed after 1 hour	Ultra low background in all channels	Room temperature storage of mounted slides	Mounting Media Storage at 4°C	Very few bubbles
VECTASHIELD Vibrance Mounting Media	✓	✓	✓	✓	✓	✓
Competitor G					✓	✓
Competitor D	✓				Freezer recommended	

Explore our portfolio of VECTASHIELD Antifade Mounting Media Products

Product	Unit Size	No Counterstain	With DAPI Counterstain	With PI Counterstain	With TRITC-Phalloidin
VECTASHIELD Vibrance® Antifade Mounting Medium (hardening)	2 ml, 10 ml	H-1700	H-1800		
VECTASHIELD® PLUS Antifade Mounting Medium (non-hardening)	2 ml, 10 ml	H-1900	H-2000		
VECTASHIELD® Antifade Mounting Medium (non-hardening)	10 ml	H-1000	H-1200	H-1300	
VECTASHIELD® HardSet™ Antifade Mounting Medium (hardening)	10 ml	H-1400	H-1500		H-1600

REFERENCES 60,000+

VECTASHIELD

The MOST widely referenced antifade mounting media!

For more information please visit
vectorlabs.com/vibrance

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