

Vector® TrueVIEW® Autofluorescence Quenching Kit



Together we breakthrough™

Dramatically Reduce Tissue Autofluorescence

Reveal true immunofluorescence—even in challenging tissues

Vector TrueVIEW Autofluorescence Quenching Kit provides a novel way to remove unwanted fluorescence in tissue sections due to aldehyde fixation, red blood cells, and structural elements such as collagen and elastin. This unique formulation binds and effectively quenches the autofluorescent elements in even the most problematic tissues, such as kidney, spleen and pancreas.

The use of the TrueVIEW quenching reagent leads to significant enhancement in overall signal-to-noise in most immunofluorescence assays.

Unmatched effectiveness

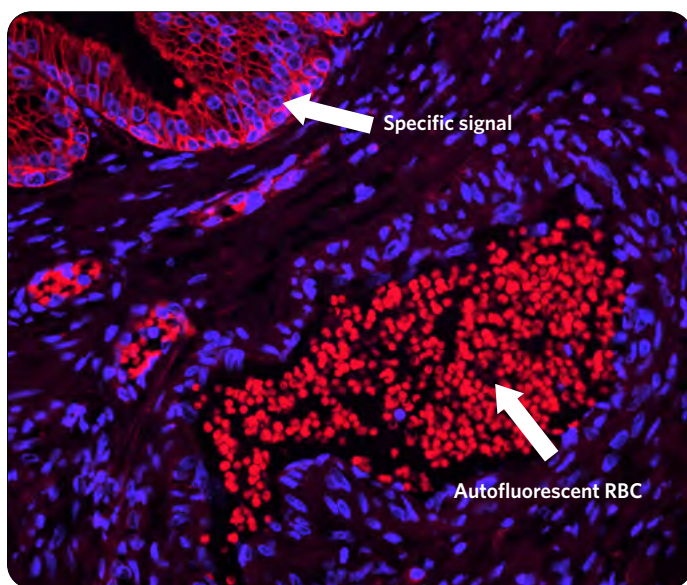
Most methods for reduction of tissue autofluorescence act primarily on lipofuscin granules, and are not broadly effective against the most common sources of autofluorescence targeted by the TrueVIEW quenching reagent.

The Vector TrueVIEW Autofluorescence Quenching Kit is a unique approach to diminish unwanted autofluorescence from non-lipofuscin sources, that retain the specific fluorescent antigen staining. The quenching action of the kit reagents therefore, provides the investigator with a clear, unambiguous, "true view" visualization of the intended target.

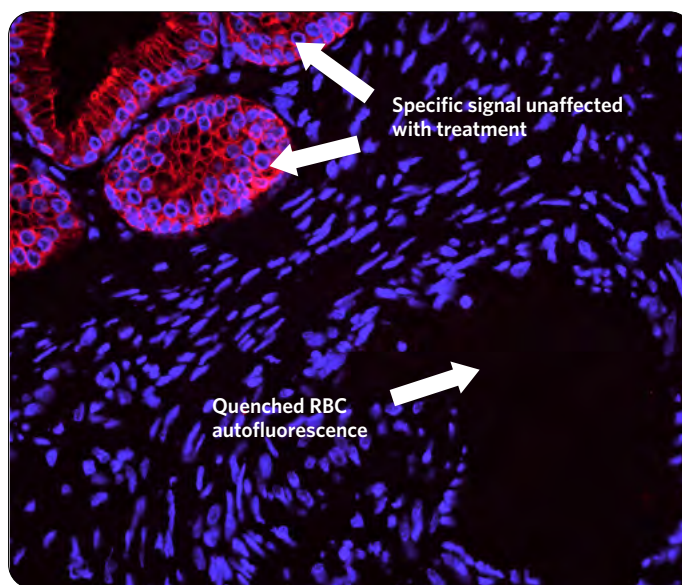
Why TrueVIEW Quencher?

- ✓ Specific reduction of autofluorescence from aldehyde fixation
- ✓ Improved signal-to-noise ratio
- ✓ Effective in even the most challenging tissues
- ✓ 5 minute incubation
- ✓ Broad fluorophore compatibility
- ✓ Compatible with standard epifluorescence and confocal laser microscopes
- ✓ Antifade mounting medium included (with or without DAPI counterstain)

WITHOUT TrueVIEW Quenching*



WITH TrueVIEW Quenching*

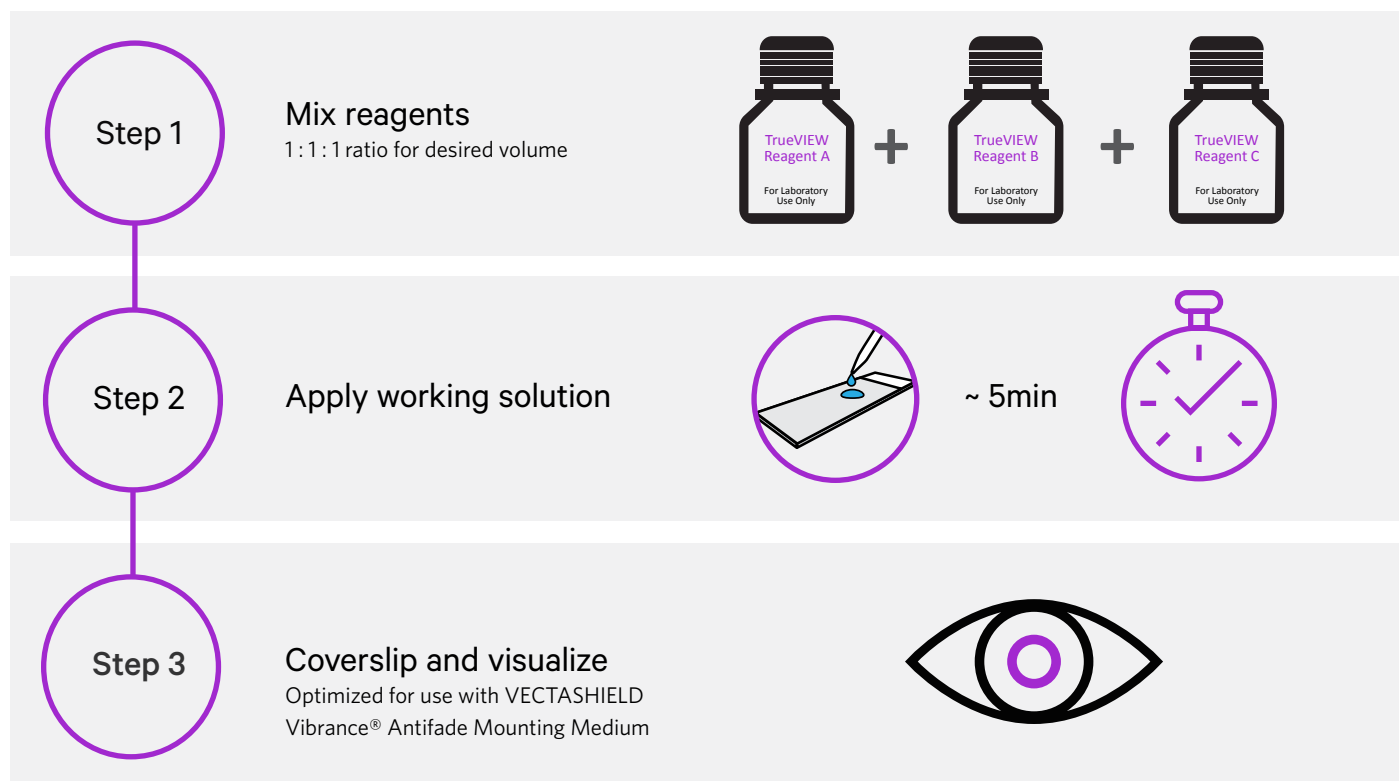


Human Prostate: FFPE serial sections stained for epithelium (red) and with DAPI counterstain (blue). Note the complete absence of red blood cell fluorescence and the retention of specific epithelial staining in the treated section (right).

TrueVIEW Autofluorescence Quenching

Easy to Apply

Following completion of the IF staining procedure:



Kit Components

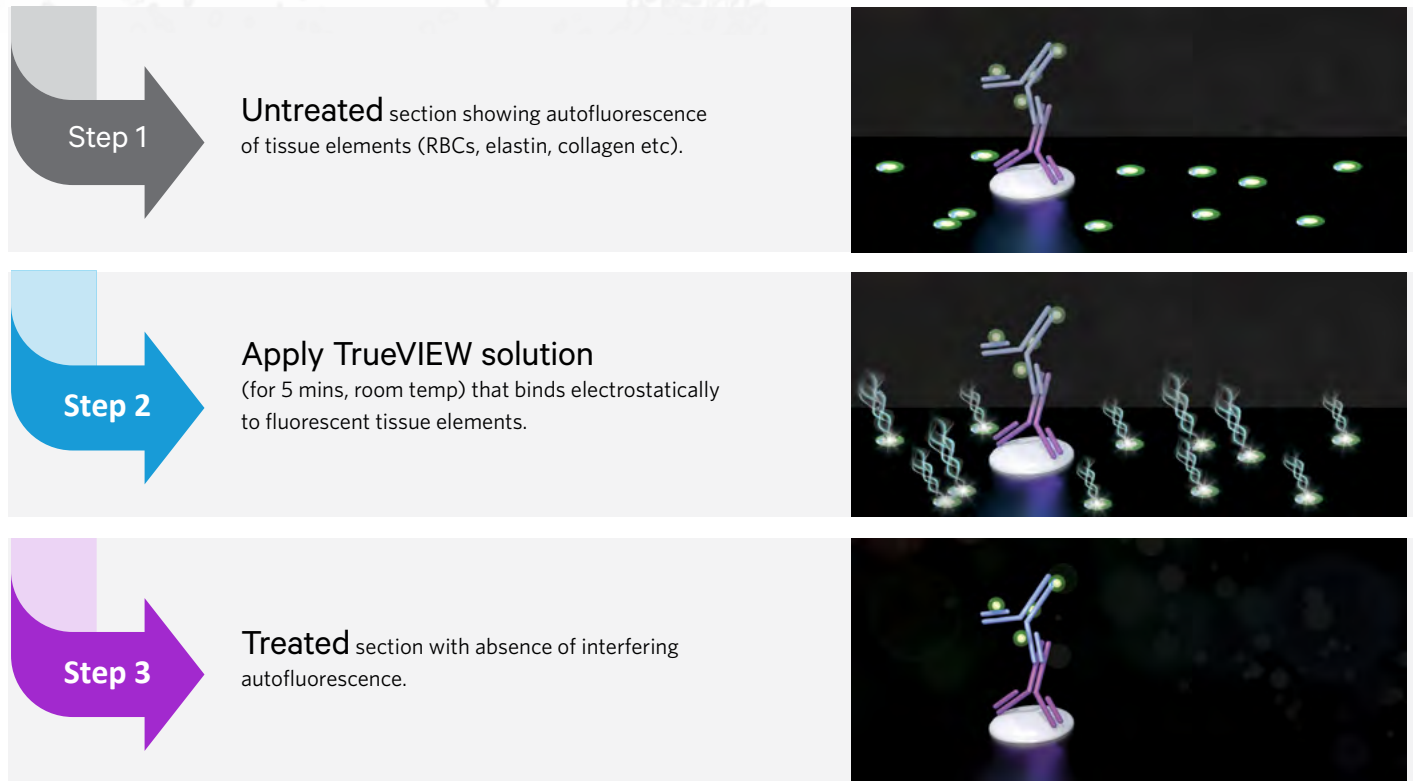
TrueVIEW Autofluorescence Quenching Kit	Unit Size
TrueVIEW Reagent A	5 ml
TrueVIEW Reagent B	5 ml
TrueVIEW Reagent C	5 ml
VECTASHIELD Vibrance Antifade Mounting Medium (with or without DAPI counterstain)	2 ml



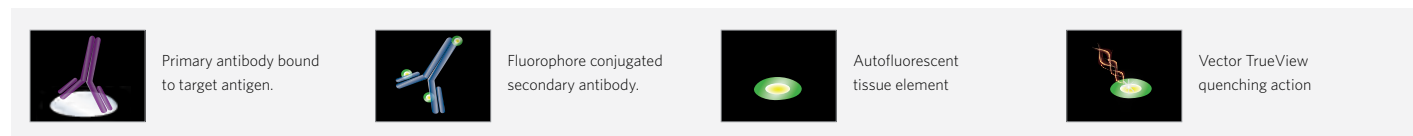
- ✓ One kit is sufficient to treat ~ 100 to 150 sections.
- ✓ Stable for several hours once made

Mode of Action

After completion of detection IF procedure:



Legend



Compatible with Popular Fluorophores

- ✓ Alexa Fluor™ 488, 594 & 647
- ✓ DyLight™ 488, 594 & 649
- ✓ Fluorescein (FITC), Cyanine 3 (CY3), Cyanine 5 (CY5)
- ✓ Green Fluorescent Protein (GFP)

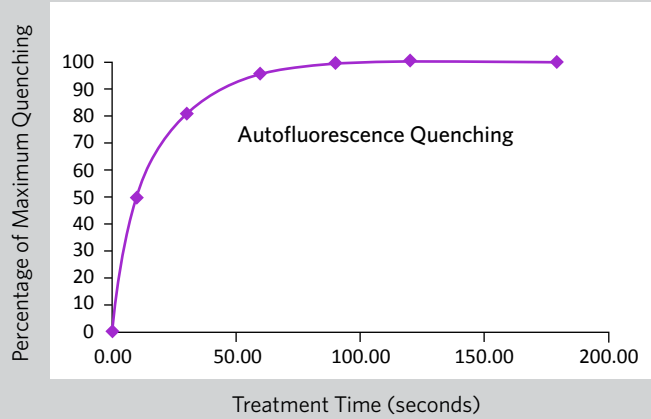
Effective across visible & far red spectrum



Rapid Quenching Effect

Quenching of human kidney section autofluorescence at time points after TrueVIEW Treatment.

Note: Maximum quenching of autofluorescence is achieved within 2 minutes of application.

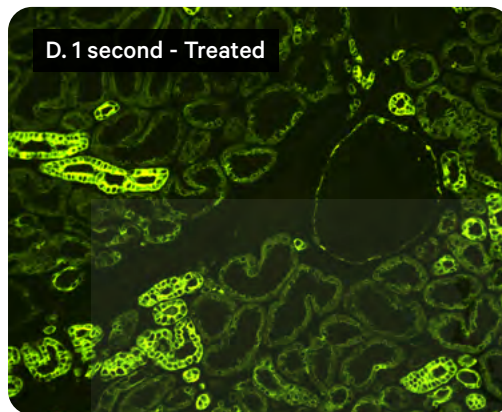
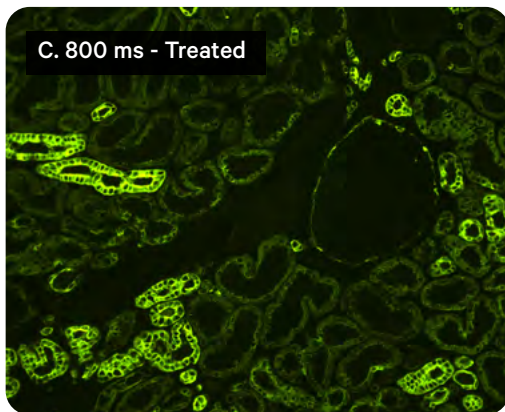
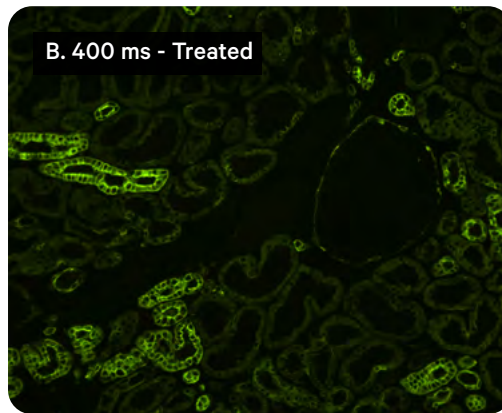
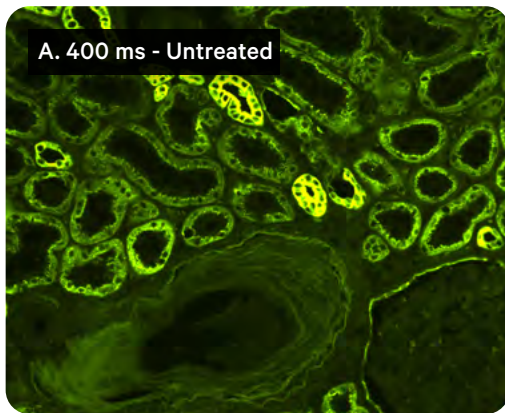


Significant improvement in signal-to-noise ratio

Antigen retrieved human kidney sections (FFPE), stained for cytokeratin using anti-AE1/AE3 antibody (green). **Images A-D.**

Without treatment **(A)**. With TrueVIEW Quencher **(B-D)**.

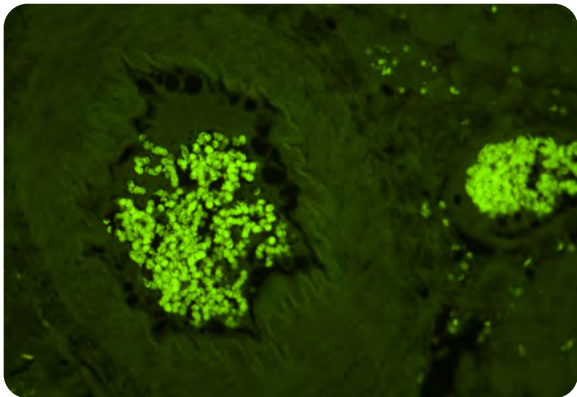
Exposure times were lengthened to increase signal intensity.



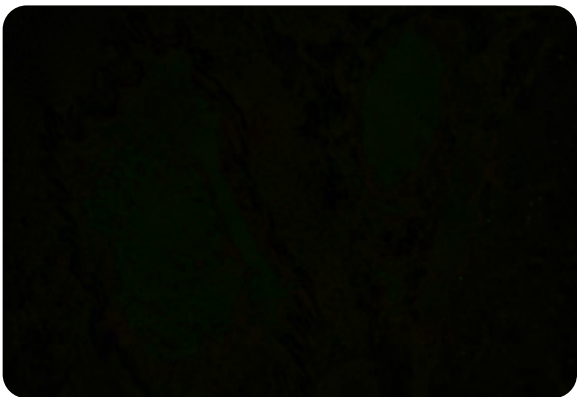
Comparison between TrueVIEW quenching reagent and other autofluorescence reducing agents

We compared the effectiveness of TrueVIEW quenching action in parallel with other commercially available autofluorescence reducing products and "home brew" reagents, on serial sections of formalin-fixed, paraffin embedded human pancreas visualized using a standard fluorescein (green) filter. No specific immunofluorescence staining was conducted. The images below highlight our results. All images were acquired under identical conditions (including microscope objective and exposure times).

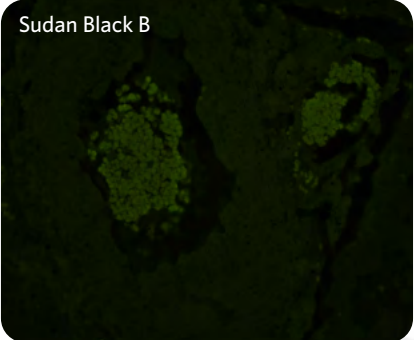
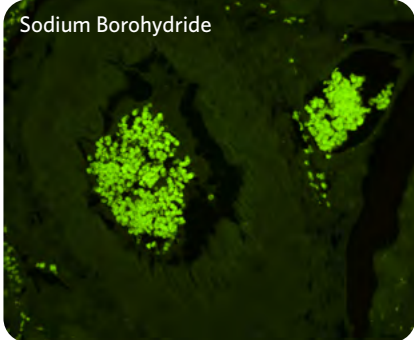
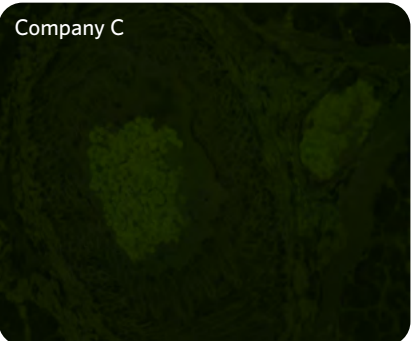
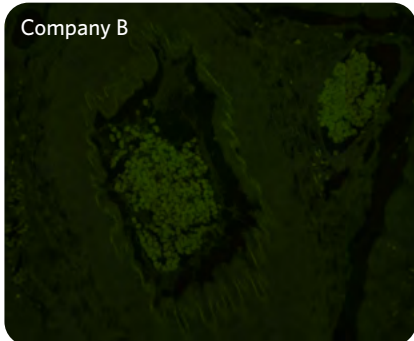
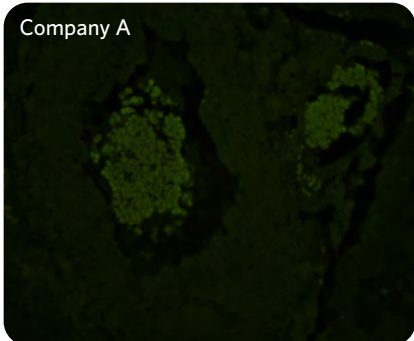
No Treatment (Endogenous autofluorescence)



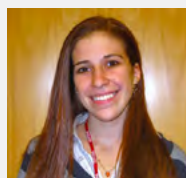
TrueVIEW Quencher Treated



Competitor and other autofluorescence treatments



Customer Testimonials and Ordering Information

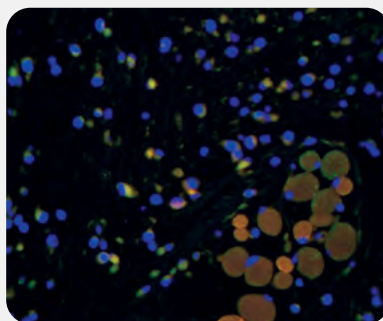


Dr. Kaitlyn Sadtler
Postdoctoral Fellow
MIT, Boston Children's Hospital

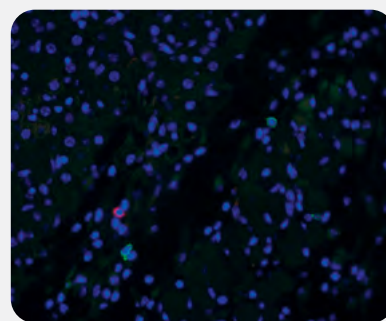
"I would definitely use this reagent in the future — it is quick and reliable on multiple tissue types."

– Dr. K. Sadtler

WITHOUT Treatment



WITH TrueVIEW Quencher



Adjacent mouse skin tissue sections (FFPE) double stained using primary antibodies against CD3 (Pan T cell marker) and B220 (CD45R) antigens with a DAPI (blue) counterstain. Note: interfering background autofluorescence on section without treatment (left image), and essentially total elimination of autofluorescence following treatment with TrueVIEW Quenching Reagent (right image). The arrows on the right image show the "true" actual antigen staining. Courtesy of Dr. Sadtler.



Brian Tabb, MS, HTL, QIHC
Immunohistochemistry Scientist
Alizee Pathology

"I tested it after using a tyramide fluorescent detection kit (555) and also tested it with GFP expression models while also comparing this kit to a competitor's quenching solution. The TrueVIEW definitely decreased autofluorescence more than the competition while seeming to have no effect on GFP signal."

– Brian Tabb, MS, HTL, QIHC

Ordering Information

Product	Unit Size	Catalog Number
Vector® TrueVIEW® Autofluorescence Quenching Kit	Kit	SP-8400
Vector® TrueVIEW® Autofluorescence Quenching Kit with DAPI	Kit	SP-8500
VECTASHIELD Vibrance® Antifade Mounting Medium (No Counterstain)	2 ml, 10 ml	H-1700
VECTASHIELD Vibrance® Antifade Mounting Medium with DAPI	2 ml, 10 ml	H-1800

For more information please visit
vectorlabs.com/trueview

For research use only. Not intended for Animal or Human therapeutics or diagnostic use.
©2022 Vector Laboratories. All rights reserved.
TrueVIEW, VectaFluor, VECTASHIELD Vibrance and Vector are trademarks of Vector Laboratories, Inc.
Alexa Fluor and DyLight are trademarks of Thermo Fisher Scientific.

