

Antigen Retrieval: No damage to antigen

Blocking: High blocking efficiency

Antifade: Non-hardening

Antibody Diluent: Signal enhancer Chromogenic Detection: Simple staining

Anti GFP antibody: Rat monoclonal antibody

Antigen Retrieval Solution HistoVT One

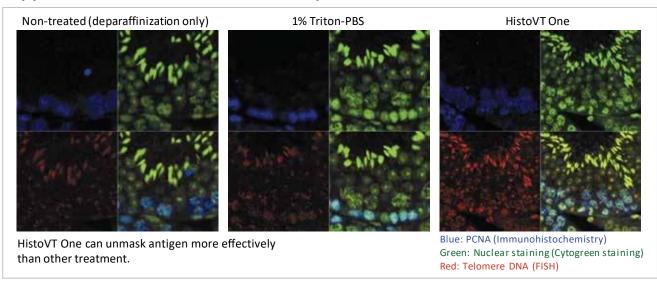




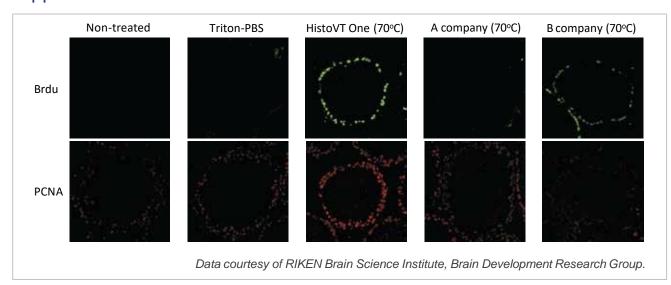
Features

Many references
Enhancing antigen-antibody reaction
Applicable to frozen or paraffin-embedded tissue sections

Application data 1: Formalin-fixed, paraffin-embedded tissue sections



Application data 2: Frozen sections



Product Name	Storage	Cat. No.	Quantity
HistoVT One (10X, pH 7.0)	RT	06380-05	500 ml

Blocking Solution Blocking One Histo





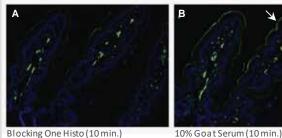
Features

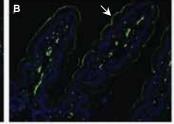
Easy-to-use: eye-drop bottle

Safe: the preservative does not affect the activity of alkaline phosphatase

or horseradish peroxidase

Comparison of blocking efficient with 10% Goat Serum (Immunofluorescence)

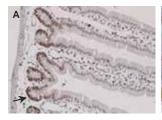


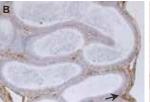


with 10% Goat Serum, the stained white arrow along the lines of shape of small intestine show non-specific staining. Blocking One Histo is more effective at reducing non-specific background staining than normal serum.

In both panels, mouse small intestine tissue section was stained with secondary antibody conjugated with CF™ 488A (green) and counter stained with DAPI (blue). In the panel B

Application data







- A: Mouse small intestine (PCNA) x5
- B: Mouse epididymis (Vimentin) x25
- C: Mouse brain (GluR) x100

Blocking treatment of each tissue section had been performed by Blocking One Histo. Mouse small intestine (panel A) was stained with anti-PCNA and DAB (3,3'-Diamino Benzidine) to stain nuclear (black arrow), Mouse epididymis (panel B) was stained with anti-Vimentin and DAB to stain nuscle (black arrow), Mouse brain (panel C) was stained with anti-GluR and DAB to stain membrane proteins (black arrow) and counter stained with hematoxylin.

Product Name	Storage	Cat. No.	Quantity
Blocking One Histo	4°C	06349-64	50 ml

Mounting Medium for Fluorescent Staining Fluoro-KEEPER Antifade Reagent, Non-hardening Type



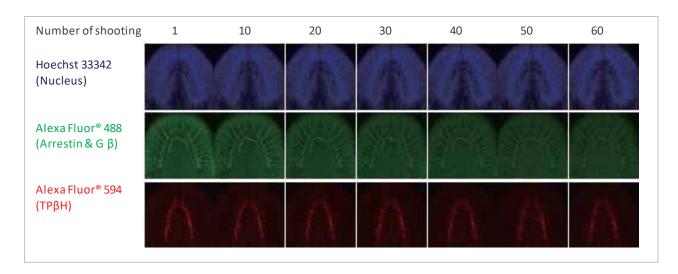
Features

Inhibits photobleaching of various fluorochromes
Easy to use with eye-drop bottle
Non-hardening type
Available with or without DAPI



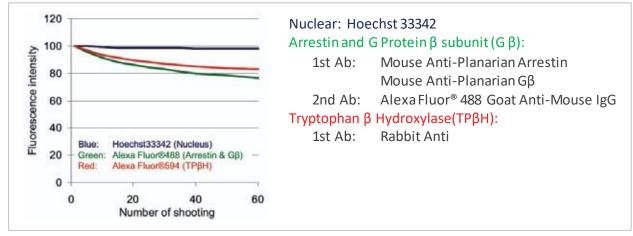
■ Fluoro-KEEPER (without DAPI)

Fluorescent microscopy experiments: Planarian



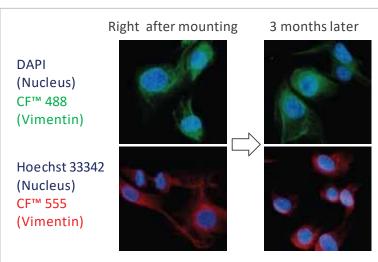
Fluorescence intensity

Fluorescence intensities are shown as percentages of initial intensities remaining during repeated frame capture up to 60 times. The images were acquired by Olympus FV10. The samples mounted in the Fluoro-KEEPER Antifade Reagent were clearly detected after 60 times of frame capture.



Fluorescent microscopy observation in 3 months

The samples mounted in Fluoro-KEEPER Antifade Reagent without DAPI can be stored for long-term when the coverslip are completely sealed with nail polish.



Sealing: Nail polish

Storage: 3 months at 4°C, protected from light

Sample: MC3T3-E1 cell (Fixation: 4%-Paraformaldehyde Phosphate Buffer Solution

(Cat. No.: 09154) for 15 min. at RT)

Retrieval: HistoVT One (Cat. No.: 06380) for 30 min. at 90°C)

Blocking: Blocking One Histo (Cat. No.: 06349)

1st Ab: Anti-Vimentin Rabbit Polyclonal Antibody (Santa Cruz, Cat. No.: sc-7557R)

2nd Ab: CF™ 488A Goat Anti-Rabbit IgG (H+L), F(ab')2 Fragment (Biotium, Cat. No.: 20013)

CF™ 588 Goat Anti-Rabbit IgG (H+L) (Biotium, Cat. No.: 20033)

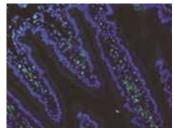
Nuclear Staining: DAPI (Cat. No.: 11034), Hoechst 33258 (Cat. No.: 04907)

Fluoro-KEEPER (with DAPI)

Fluorescent microscopy experiments

Mounting medium: Fluoro-KEEPER with DAPI for 30 min. at RT protecting from light

Microscopy: Olympus BX-50-34-FLA1



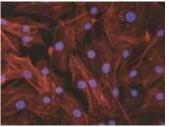
Mouse Small Intestine

Antigen Retrieval: HistoVT One (Cat. No.: 06380)
Blocking: Blocking One Histo (Cat. No.: 06349)
1st Ab: Anti-Vimentin Rabbit Polyclonal Antibody

(Santa Cruz, Cat. No.: sc-7557R)

2nd Ab: CF™ 488A Goat Anti-Rabbit IgG (H+L), F(ab')2 Fragment

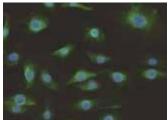
(Biotium, Cat. No.: 20013)



MC3T3-E1 Cell

Blocking: Blocking One Histo (Cat. No.: 06349)

Rhodamine Phalloidin (Cytoskeleton, Cat. No.: PHDR1)



MC3T3-E1 Cell

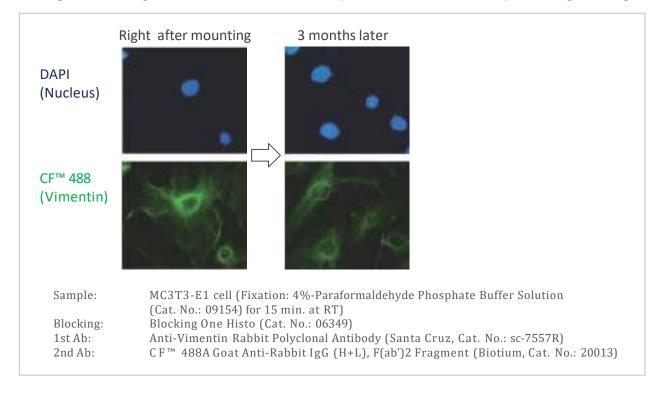
Blocking: Blocking One Histo (Cat. No.: 06349)
1st Ab: Anti-Vimentin Rabbit Polyclonal Antibody

(Santa Cruz, Cat. No.: sc-7557R)

2nd Ab: Cy2® Goat anti-Rabbit IgG (H+L) (Genetex, Cat. No.: GTC26940)

Fluorescent microscopy observation in 3 months

The samples mounted in Fluoro-KEEPER Antifade Reagent wit DAPI can offer brightly signals of DAPI and CF™ 488 in spite of storage for 3 months upon sealing of a coverslip. For long-term storage, seal with hot wax or nail polish and store at 4°C protecting from light.



■ Comparison of antifade effectiveness with different fluorescent dyes

Cells stained by each fluorescent dye were mounted in Fluoro-KEEPER Antifade Reagent, 85% Glycerol containing PBS as a control. Samples were illuminated for 60 seconds. Each number indicates fluorescence intensity as percentage of initial intensity after 60 seconds exposure photobleaching.

Fluorescent Dye	without D	API	with D	API
	Fluoro-KEEPER	Control	Fluoro-KEEPER	Control
Hoechst 33258	98 %	96%	-	-
Hoechst 33342	100 %	90%	-	-
DAPI	99 %	93%	-	-
Propidium Iodide	95 %	67%	-	-
Fluorescein	97 %	49 %	96%	49 %
Alexa Fluor® 488	93 %	86%	96%	91%
CF™ 488	93 %	82%	91%	82 %
Cy® 2	99 %	83 %	98%	81%
Rhodamine	72 %	51%	78 %	41%
Alexa Fluor® 555	98 %	81%	97%	87 %
CF™ 555	98 %	85 %	97%	85 %
Cy® 3	89 %	71%	86 %	66 %

Control Condition:

85 % Glycerol-PBS (without DAPI) 85 % Glycerol-PBS with DAPI

Fluorescent Microscopy:
Olympus BX-50-34-FLA1

Exposure Time: 60 seconds.

Product Name	Storage	Cat. No.	Quantity
Fluoro-KEEPER Antifade Reagent, Non-Hardening Type	4°C	12593-64	2 x 5 ml
Fluoro-KEEPER Antifade Reagent, Non-Hardening Type with DAPI	4°C	12745-74	2 x 5 ml

Antibody Diluent Signal Enhancer HIKARI

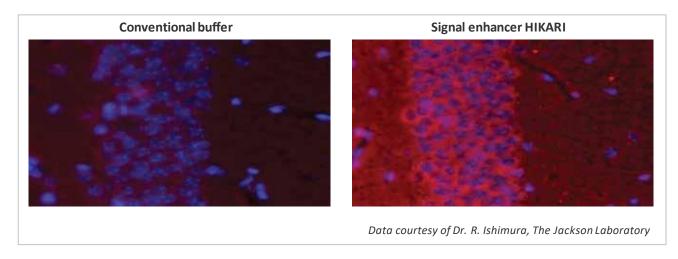


Features

Enhances signals - yields several fold increase in signal intensity
Reduces background - improves the specificity of your antibodies
Simple - just dilutes your antibodies with Signal Enhancer HIKARI solution
Works with any system - applicable to colorimetric, chemiluminescent and
fluorescent detection

Application data

Brain tissue section was stained with secondary antibody conjugated with AF555 (red) and counter stained with Hoechst dye (blue).



Note: Signal Enhancer HIKARI for Immunostain Solution A and B exhibit different enhancing effects, depending on antigens and antibodies. These solutions can be used independently. However, both solutions should be explored in order to select the more suitable one for your particular assay system. A Starter Kit [NU00201] composed of both Solution A and B is available for such purpose.

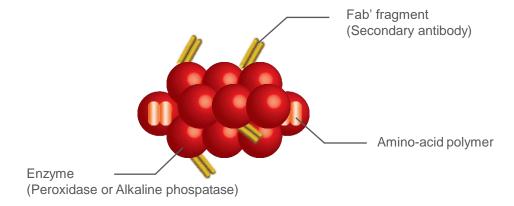
Product Name	Storage	Cat. No.	Quantity
Signal Enhancer HIKARI for Immunostain Starter Kit (Solution A & Solution B)	4°C	NU00201	5 ml each
Signal Enhancer HIKARI for Immunostain Solution A	4°C	NU00202	20 ml
Signal Enhancer HIKARI for Immunostain Solution B	4°C	NU00203	20 ml

One-step Polymer Detection System Histofine Simple Stain

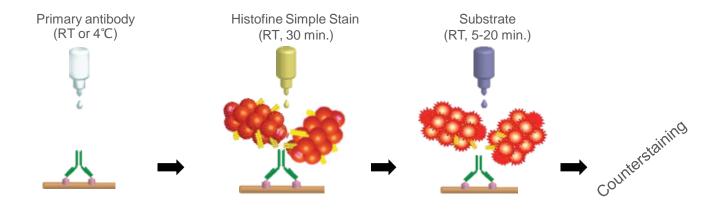


Polymer Technology

Multiple molecules of enzyme and secondary antibodies conjugate to amino-acid polymers. Polymeric enzyme provides increased staining intensity.

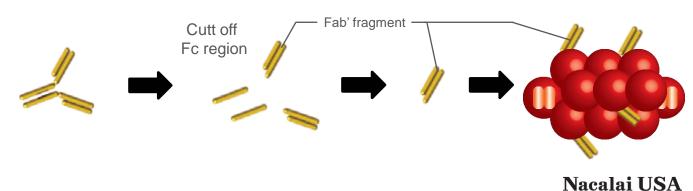


Simplified Staining Steps

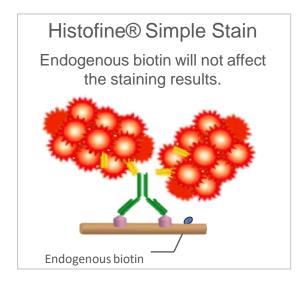


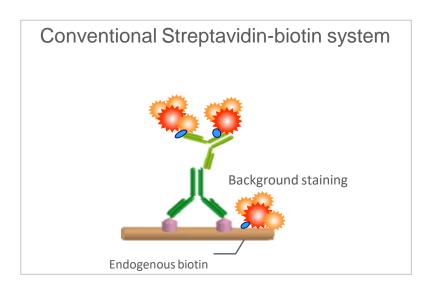
Low background

Only Fab' fragments are used as secondary antibodies. As Fab' fragment doesn't bind to endogenous Fc receptor, the background remains clean.



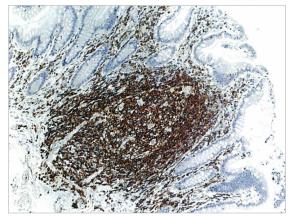
Low background





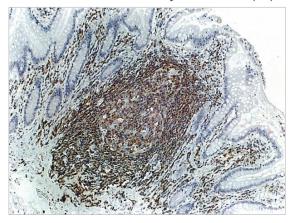
Comparison between Histofine® and conventional SAB System

Simple Stain MAX PO (M)



Primary Antibody: LCA mouse-mono Substrate: DAB

Conventional SAB System PO (M)



Primary Antibody: LCA mouse-mono Substrate: DAB

Application Data

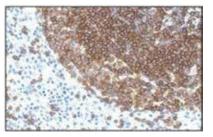
Rabbit anti-Keratin/ Cytokeratin antibody



Mouse skin stained with Histofine® Simple Stain Mouse MAX PO(R) and DAB chromogen.

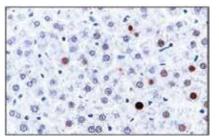
Note: cytoplasmic staining of epithelium cells and sweat gland cells.

Rat anti-Mouse CD45R/B220



Mouse spleen stained with Histofine® Simple Stain Mouse MAX PO(Rat) and DAB Chromogen. Note: membrane staining of almost all lymphocytes in germinal center and scattered interfollicular lymphocytes.

Mouse anti-PCNA antibody (clone:PC10)



Rat liver stained with Histofine® Simple Stain Rat MAX PO(MULTI) and DAB chromogen.

Note: nuclear staining of liver cells.

For Mouse Tissue Sections

Ordering Information

Product Name	Catalog No.	Quantity	Size	Species of primary antibody
Histofine® Simple Stain MOUSESTAIN KIT	414321F 414322F	50 tests 500 tests	6 mL ea 51 mL ea	Mouse primary antibody
Histofine® Simple Stain Mouse MAX PO (R)	414341F	170 tests	1 x 17 ml	Rat primary antibody
Histofine® Simple Stain Mouse MAX PO (G)	414351F	170 tests	1 x 17 ml	Goat primary antibody
Histofine® Simple Stain Mouse MAX PO (Rat)	414311F	170 tests	1 x 17 ml	Rat primary antibody

For Rat Tissue Sections

Histofine® Simple Stain Rat MAX PO (MULTI)	414191F	170 tests	1 x 17 ml	Mouse & rabbit primary ab
Histofine® Simple Stain Rat MAX PO (M)	414171F	170 tests	1 x 17 ml	Mouse primary antibody
Histofine® Simple Stain Rat MAX PO (R)	414181F	170 tests	1 x 17 ml	Rabbit primary antibody
Histofine® Simple Stain Rat MAX PO (G)	414331F	170 tests	1 x 17 ml	Goat primary antibody

For Human Tissue Sections

For Human Hissue Sections				
Histofine® High Stain Human HRP (MULTI) -High Sensitive 2 Step Polymer Detection System	414481F 414483F	170 tests 1000 tests	1 x 17 ml ea 6 x 17 ml ea	Mouse & rabbit primary ab
Histofine® Simple Stain Human MAX PO (MULTI)	414151F 414152F 414154F	170 tests 500 tests 1500 tests	1 x 17 ml 3 x 17 ml 9 x 17 ml	Mouse & rabbit primary ab
Histofine® Simple Stain Human MAX PO (M)	414131F 414132F 414134F	170 tests 500 tests 1500 tests	1 x 17 ml 3 x 17 ml 9 x 17 ml	Mouse primary antibody
Histofine® Simple Stain Human MAX PO (R)	414141F 414142F 414144F	170 tests 500 tests 1500 tests	1 x 17 ml 3 x 17 ml 9 x 17 ml	Rabbit primary antibody
Histofine® Simple Stain Human MAX PO (G)	414161F 414162F	170 tests 500 tests	1 x 17 ml 3 x 17 ml	Goat primary antibody
Histofine® Simple Stain Human AP (MULTI)	414261F 414262F	170 tests 500 tests	1 x 17 ml 3 x 17 ml	Mouse & rabbit primary ab
Histofine® Simple Stain Human AP (M)	414241F 414242F	170 tests 500 tests	1 x 17 ml 3 x 17 ml	Mouse primary antibody
Histofine® Simple Stain Human AP (R)	414251F 414252F	170 tests 500 tests	1 x 17 ml 3 x 17 ml	Rabbit primary antibody

Detection Kit

Histofine® DAB-3S Kit	415192F 415194F	500 tests 1500 tests	1 x 3 ml 3 x 9 ml	Peroxidase	
Libertine @ DAD OVICE	415194F 425312F	500 tests	-		
Histofine® DAB-2V Kit	425314F	1500 tests	-	Peroxidase	
Histofine® Simple Stain AEC Solution	415182F	500 tests	-	Peroxidase	
·	415184F	1500 tests	-		
Histofine® New Fuchsin Substrate Kit	415161F	2000 tests	-	Alkaline phosphatase	
Histofine® ALK Detection Kit	417071F	20 tests	-		
Histofine® ALK Control Slides	417081F	5 slides	-		

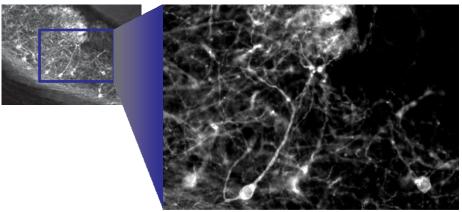
Histofine® primary antibodies

Histofine® primary antibodies for human tissue sections are applicable to FFPE tissue sections and used for histopathological differentiation. Pretreatment method and dilution rate are indicated on our web site.

Rat anti-GFP Antibody, Mono



Application



Data courtesy of Dr. Y. Yoshihara, RIKEN Brain Science Institute

Sample Primary antibody

: Mouse brain (nerve cell) : Anti-GFP (Rat IgG2a), Mono

(1:1000) RT, over night Secondary antibody: Anti-Rat IgG-Cy3 (1:300)

Blocking RT, 1 hr Fixing method : 5% Norm

: 5% Normal goat serum/ 0.2% TritonX-100 in PBS : 4% Paraformaldehyde

Product Specification

Clone : GF090R Isotype : IgG2a (Rat) Product form : Liquid

Immunogen : His-GFP (full length) fusion protein
Application : Immunohistochemistry 1:1000-1:2000

Western Blotting 1:1000-1:2000

ELISA 1:2000-1:20000

Referenece

Yonehara, K. Nature. 469(7330):407-10 (2011) Abe, K. et al. Biol Reprod. 85(5):1013-24 (2011) Hide, T. et al. Stem Cells. 29(4):590-9 (2011)

Kurita, S. et al. J Biol Chem. 286(42):36297-303 (2011)

Wang, X. et al. Glia. 59(6):857-68 (2011)

Mochizuki, N. Biol Pharm Bull. 34(2):260-5 (2011) Inamura, N. et al. Dev Neurosci. 33(2):118-29 (2011)

Vidaki, M. et al. Cereb Cortex. (2011) Konno, A. et al. Neurosci Res. (2011)

Gotoh, H. et al. Dev Biol. 349(2):504-11 (2011)

Product Name	Storage	Cat. No.	Qty.
Anti-GFP (Rat IgG2a), Monoclonal (GF090R)	4°C	04404-84	200 μg

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