

Revised: January 21, 2019

# **Product Information**

## Donkey Anti-Rat IgG (H+L), Whole Antibody, Highly Cross-Adsorbed (min x Bv, Ch, Gt, GP, Hs, Hu, Ms, Rb, Sh, SHm)

CF® Dye	Ex/Em	Catalog No.	Size
	0.1=14.40	20361-50uL	50 uL
CF®350 347/448 nm	20361-500uL	500 uL	
		20361-1mg	1 mg (lyophilized)
		20419-50uL	50 uL
CF®405S	5S 404/431 nm	20419-500uL	500 uL
		20419-1mg	1 mg (lyophilized)
		20027-1	50 uL
CF®488A	CF®488A 490/515 nm	20027	500 uL
		20027-1mg	1 mg (lyophilized)
	541/560 nm 562/583 nm 593/614 nm	20320-1	50 uL
CF®543	541/560 nm	20320	500 uL
		20320-1mg	1 mg (lyophilized)
	562/583 nm	20092-1	50 uL
CF®568		20092	500 uL
		20092-1mg	1 mg (lyophilized)
CF®594	593/614 nm	20159-1	50 uL
		20159	500 uL
		20159-1mg	1 mg (lyophilized)
	CF®633 630/650 nm	20137-1	50 uL
CF®633		20137	500 uL
		20137-1mg	1 mg (lyophilized)
		20199-1	50 uL
CF®640R	404/431 nm 490/515 nm 541/560 nm 562/583 nm	20199	500 uL
		20199-1mg	1 mg (lyophilized)
	347/448 nm	20843-50uL	50 uL
CF®647		20843-500uL	500 uL
		20843-1mg	1 mg (lyophilized)
	663/682 nm	20390-50uL	50 uL
CF®660R		20390-500uL	500 uL
		20390-1mg	1 mg (lyophilized)
	681/698 nm	20417-50uL	50 uL
CF®680		20417-250uL	250 uL
		20857-50uL	50 uL
CF®750	0 755/777 nm	20857-250uL	250uL

Bv: bovine; Ch: chicken; Gt: goat; GP: guinea pig; Hs: horse; Hu: human; Ms: mouse; Rb: rabbit; Sh: Sheep; SHm: Syrian hamster

#### Concentration

#### Liquid format:

2~mg/mL in pH  $\sim\!\!7.4~\text{PBS}$  containing 50% glycerol, 2~mg/ml bovine serum albumin (lgG-free and protease-free) and 0.05% sodium azide.

#### Lyophilized format (after reconstitution):

 $2\,\text{mg/mL}$  in pH  $\sim\!\!7.4$  PBS containing 15 mg/mL bovine serum albumin (IgG-free and protease-free) and 20 mg/mL trehalose.

#### Storage and Handling

Store at -20°C, protected from light. Product is stable for at least 6 months from date of receipt when stored as recommended. Liquid format antibodies contain 50% glycerol and will not freeze at -20°C.

Reconstitution (lyophilized format only): add 0.5 mL dH $_2$ O and mix gently to dissolve. Store at -20°C, protected from light. Aliquot to avoid freeze-thaw cycles. Alternatively, glycerol can be added to the antibody so that it will not freeze at -20°C: add 0.25 mL dH $_2$ O to the lyophilized antibody and mix gently to dissolve, then add 0.25 mL glycerol and mix well. Optional: a preservative may be added, such as 0.05% (final concentration) sodium azide.

Note: storage of the antibody for more than a day at final working dilution is not recommended.

#### **Product Description**

Donkey anti-rat IgG (H+L), whole antibody, highly cross-adsorbed is an affinity purified donkey antibody that recognizes rat IgG. This antibody is highly-cross adsorbed for multiple labeling, and has minimal cross-reactivity with bovine, chicken, guinea pig, Syrian hamster, horse, human, mouse, rabbit, and sheep serum proteins.

CF® dyes are superior to Alexa Fluor®, DyLight®, and Cy® dyes for antibody labeling by having combined advantages in brightness, photostability, specificity and novel features ideal for in vivo imaging. For more information about CF® dyes, download our CF® Dye Selection Guide at www.biotium.com.

### **Recommended Dilution Range**

Fluorescence microscopy: 1-2 ug/mL Flow cytometry: 1 ug/10<sup>6</sup> cells

Near-infrared western detection: 50-100 ng/mL

These concentrations are provided as a starting point for optimization; appropriate dilutions should be determined empirically. Generally IgG conjugates are used in the range of 1-10 ug/mL.

For more detailed protocols for immunofluorescence staining for fluorescence microscopy, flow cytometry, or fluorescence-based western detection, download our Protocols for Antibody-Based Detection from the secondary antibody product webpage.

#### Accessory products for immunofluorescence

TrueBlack® IF Background Suppressor System (Permeabilizing)  **Nore efficient than Image-Tie PX, block & permeabilizing, and antibody dilution **Nor-mammalian blocking agents, for broad secondary antibody compatibility **Normammalian blocking agents, for broad secondary antibody compatibility **Normammalian blocking agents, for broad secondary antibody compatibility **Por immunoffurcessence on cells or its sussessettions**  **Provisible proteins hadred and background over entire membrane **Compatible with PVDF and introcellulose membranes **Compatible with PVDF and introcellulose membranes **Contains no mammalian proteins, for broad shitbody compatibility **For visible and near-IrR fluorescent westerns**  **TrueBlack® Upofuscin Autofluorescence Quencher**  **Provisible and near-IrR fluorescent whites background than Sudan Black B **Reduces background from charged dyes better than BSA_gelatin, or casein **Provision Autofluorescence**  **Reduces to a design and through the provision Autofluorescence on the Irrue Background on the secure of the Contains to a design and the Irrue BSA_gelatin, or casein **Provision Autofluorescence**  **Excellent protection from photobleaching**  **Contains to mammalian proteins, for to provision and throad	Cat. No.	Product Name	Features	
Paduces non-specific protein bands and background over entire membrane Suppresses background from charged dyes better than BSA, gelatin, or casein Compatible with PVDF and nitrocellulose membranes Provisible and near-IR fluorescent vesterns Contains no mammalian proteins, for broad antibody compatibility For visible and near-IR fluorescent vesterns Contains no mammalian proteins, for broad antibody compatibility For visible and near-IR fluorescent vesterns Contains no mammalian proteins, for broad antibody compatibility For visible and near-IR fluorescent vesterns Contains no mammalian proteins, for broad antibody compatibility For visible and near-IR fluorescent vesterns Contains no mammalian proteins, for broad antibody compatibility For visible and near-IR fluorescent vesterns Contains no mammalian proteins, for broad antibody compatibility For visible and near-IR fluorescent vesterns Contains no mammalian proteins, for broad antibody compatibility For visible and near-IR fluorescent vesterns Contains no mammalian proteins, for tood antibody compatibility For visible and near-IR fluorescent vesterns Contains no mammalian proteins, for sead antibody compatibility For visible and near-IR fluorescent vesterns Contains no mammalian proteins, for tood antibody compatibility For visible and near-IR fluorescent vesterns Contains no mammalian proteins, for tood antibody compatibility For visible and near-IR fluorescent vesterns Contains no mammalian proteins, for fixed cells in Sudan Black B Reduces not be subcycle of the staining  Excellent protection from photobleaching Compatible with a wide variety of dyes including cyanine dyes Compatible with a wide variety of dyes including cyanine dyes Compatible with a wide variety of dyes including cyanine dyes Compatible with a wide variety of dyes including cyanine dyes Compatible with a wide variety of dyes including cyanine dyes Compatible with a wide variety of dyes including cyanine dyes Compatible with a wide variety of dyes including cyanine dyes Compatible with a	23012		Complete system for blocking, permeabilizing, and antibody dilution     Non-mammalian blocking agents, for broad secondary antibody compatibility	
Reduces background from other sources	23013	TrueBlack® WB Blocking Buffer Kit	Reduces non-specific protein bands and background over entire membrane Suppresses background from charged dyes better than BSA, gelatin, or casein Compatible with PVDF and nitrocellulose membranes Contains no mammalian proteins, for broad antibody compatibility	
EverBrite™ Mounting Medium with DAP!  23003 EverBrite™ Hardset Mounting Medium  23004 EverBrite™ Hardset Mounting Medium  23008 Drop-n-Stain EverBrite™ Mounting Medium  23009 Drop-n-Stain EverBrite™ Mounting Medium  23009 Drop-n-Stain EverBrite™ Mounting Medium with DAPI  23000 CoverGrip™ Coverslip Sealant  23000 CoverGrip™ Coverslip Sealant  23000 RedDot™2 Far Red Nuclear Counterstain  23000 NucSpot® 470 Nuclear Stain,  23000 Mini Super™ Pap Pen 2.5 mm tip, ~400 uses  23000 Mini Super™ Pap Pen 4 mm tip, ~800 uses  23000 Mini-Cell Scrapers  23000 Paraformaldehyde, 4% in PBS, Ready-to-Use Fixative  23000 Paraformaldehyde, 4% in PBS, Ready-to-Use Fixative  23000 Flow Cytometry Fixation/Permeabilization Kit  23000 Flow Cytometry Fixation/Permeabilization Kit  23000 Permeabilization and Blocking Mgent  23000 Toversine dropped with a vide variety or hardset for mulations  23000 Permeabilization and Blocking Mgent  23000 Permeabilization and Blocking Mgent  23000 Fish Gelatin Blocking Mgent  23000 Fish Gelatin Blocking Mgent  23000 Fish Gelatin Blocking Mgent  23000 Permeabilization And Bloc	23007	TrueBlack® Lipofuscin Autofluorescence Quencher	Reduces background from other sources	
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Available in wet-set or hardset formulations  - Available in wet-set or hardset formulations  - With or without DAPI  - Convenient dropper bottle for pipette-free mounting - Protects fluorescent dyes from rapid photobleaching - Compatible with Cy®3, Cy®5, and Alexa Fluor® 647, unlike VECTASHIELD® - Available with our without DAPI for nuclear counterstaining - Works as well as original EverBrite™, but less viscous for rapid DAPI staining - Works as well as original EverBrite™, but less viscous for rapid DAPI staining - Replaces nail polish for coverslip sealing - Work as well as original EverBrite™, but less viscous for rapid DAPI staining - Replaces nail polish for coverslip sealing - Work as well as original EverBrite™, but less viscous for rapid DAPI staining - Replaces nail polish for coverslip sealing - Work as well as original EverBrite™, but less viscous for rapid DAPI staining - Replaces nail polish for coverslip sealing - Works as well as original EverBrite™, but less viscous for rapid DAPI staining - Replaces nail polish for coverslip sealing - Works as well as original EverBrite™, but less viscous for rapid DAPI staining - Replaces nail polish for coverslip sealing - Works as well as original EverBrite™, but less viscous for rapid DAPI staining - Replaces nail polish for coverslip sealing - Works as well as original EverBrite™, but less viscous for rapid DAPI staining - Replaces nail polish for coverslip sealing - Replaces nail polish for EverBrite™, but less viscous for rapid DAPI staining - Far-red nuclear dye for the Cy®5 channel - More specific dan Drag®7 - In the Cy®5 channel - More specific dan Drag®7 - In	23002	EverBrite™ Mounting Medium with DAPI		
EverBrite™ Hardset Mounting Medium with DAPI  23008 Drop-n-Stain EverBrite™ Mounting Medium  23009 Drop-n-Stain EverBrite™ Mounting Medium with DAPI  23009 Drop-n-Stain EverBrite™ Mounting Medium with DAPI  23005 CoverGrip™ Coverslip Sealant  23005 CoverGrip™ Coverslip Sealant  23006 RedDot™2 Far Red Nuclear Counterstain  23007 Mini-Super™ Pap Pen 2.5 mm tip, ~400 uses  23008 Mini-Cell Scrapers  23009 Mini-Cell Scrapers  23009 Paraformaldehyde, 4% in PBS, Ready-to-Use Fixative  23000 Flow Cytometry Fixation/Permeabilization Kit  23000 Flow Cytometry Fixation/Permeabilization Kit  23000 10X Fish Gelatin Blocking Agent  23000 Fish Scram Albumin Solution  23000 Seven Relabel Scrapers  23000 Coverding Mounting Medium  23000 Prop-n-Stain EverBrite™ Mounting Medium  23000 NucSpot® A70 Nuclear Stain,  23000 Paraformaldehyde, 4% in PBS, Ready-to-Use Fixative  23000 Flow Cytometry Fixation/Permeabilization Kit  23000 Flow Cytometry Fixation/Permeabilization Kit  23000 Flow Cytometry Fixation/Permeabilization Kit  23000 Flow Cytometry Fixation/Permeabilization Solution	23003	EverBrite™ Hardset Mounting Medium		
Protects fluorescent dyes from rapid photobleaching Compatible with Cy®3, Cy®5, and Alexa Fluor® 647, unlike VECTASHIELD® Available with our without DAPI for nuclear counterstaining Works as well as original EverBrite™, but less viscous for rapid DAPI staining RedDot™2 Far Red Nuclear Counterstain RedDot™2 Far Red Nuclear Counterstain RedDot™2 Far Red Nuclear Stain, RedDot™4 Far Red Nuclear Stain, Pared nuclear dye for the Cy®5 channel More specific than Draq®7  Coreat hydrophobic barriers around tissue sections Heat-stable to 120°C Insoluble in aqueous buffers, detergents, alcohol and acetone; can be removed with xylen  Collect cells from 96-well to 24-well plates Polypropylene, sterile, disposable Ready-to-use fixation buffer Methanol-free, prepared from EM grade paraformaldehyde Not glass ampoules to break, store in the original bottle Ready-to-use fix/perm buffers for intracellular staining  Portects fluorescent da Alexa Fluor® 47, unlike VECTASHIELD® Available with our without DAPI for nuclear counterstaining Replaces nail polish for coverslip sealing Works as well as original EverBrite™, but less viscous for rapid DAPI staining  Replaces nail polish for coverslip sealing Works as well as original EverBrite™, but less viscous for rapid DAPI staining  Pared nuclear dye for the Cy®5 channel Nore specific counterstain for fixed cells or tissues  Create hydrophobic barriers around tissue sections Heat-stable to 120°C Insoluble in aqueous buffers, detergents, alcohol and acetone; can be removed with xylen  Collect cells from 96-well to 24-well plates Polypropylene, sterile, disposable Ready-to-use fixation buffer Methanol-free, prepared from EM grade paraformaldehyde No glass ampoules to break, store in the original bottle Ready-to-use fix/perm buffers for intracellular staining  Convenient buffers and blocking agents for immunofluorescence or western	23004	EverBrite™ Hardset Mounting Medium with DAPI		
Ompatible with Cy®3, Cy®5, and Alexa Fluor® 647, unlike VECTASHIELD® Available with our without DAPI for nuclear counterstaining Works as well as original EverBrite™, but less viscous for rapid DAPI staining  CoverGrip™ Coverslip Sealant  CoverGrip™ Coverslip Sealant  RedDot™2 Far Red Nuclear Counterstain  RedDot™2 Far Red Nuclear Counterstain  NucSpot® 470 Nuclear Stain,  Green fluorescent nuclear-specific counterstain for fixed cells or tissues  Create hydrophobic barriers around tissue sections Heat-stable to 120°C Insoluble in aqueous buffers, detergents, alcohol and acetone; can be removed with xylen  Collect cells from 96-well to 24-well plates Polypropylene, sterile, disposable  Ready-to-use fixation buffer Methanol-free, prepared from EM grade paraformaldehyde No glass ampoules to break, store in the original bottle  Ready-to-use fix/perm buffers for intracellular staining  Convenient buffers and blocking agents for immunofluorescence or western  Convenient buffers and blocking agents for immunofluorescence or western	23008	Drop-n-Stain EverBrite™ Mounting Medium	Protects fluorescent dyes from rapid photobleaching Compatible with Cy®3, Cy®5, and Alexa Fluor® 647, unlike VECTASHIELD® Available with our without DAPI for nuclear counterstaining	
- Won't mix with aqueous mounting media - Far-red nuclear dye for the Cy®5 channel - More specific than Draq®7 - More specific than Draq®7 - Won't mix with aqueous mounting media - Far-red nuclear dye for the Cy®5 channel - More specific than Draq®7 - Won't mix with aqueous mounting media - Far-red nuclear dye for the Cy®5 channel - More specific than Draq®7 - Won't mix with aqueous mounting media - Far-red nuclear dye for the Cy®5 channel - More specific than Draq®7 - Won't mix with aqueous mounting media - Far-red nuclear dye for the Cy®5 channel - More specific than Draq®7 - Won't mix with aqueous buffer by fixed to Hore specific than Draq®7 - Won't mix with aqueous buffer by fixed collect cells from 96 with Logary - Pare Pap Pen 2.5 mm tip, ~400 uses - Create hydrophobic barriers around tissue sections - Heat-stable to 120°C - Insoluble in aqueous buffers, detergents, alcohol and acetone; can be removed with xylen - Collect cells from 96-well to 24-well plates - Polypropylene, sterile, disposable - Ready-to-use fixation buffer - Methanol-free, prepared from EM grade paraformaldehyde - No glass ampoules to break, store in the original bottle - Ready-to-use fix/perm buffers for intracellular staining - Convenient buffers and blocking agents for immunofluorescence or western - Convenient buffers and blocking agents for immunofluorescence or western	23009	Drop-n-Stain EverBrite™ Mounting Medium with DAPI		
A0083 NucSpot® 470 Nuclear Stain,  40083 NucSpot® 470 Nuclear Stain,  40083 Nini Super HT Pap Pen 2.5 mm tip, ~400 uses  40084 Super HT Pap Pen 4 mm tip, ~800 uses  40085 Super HT Pap Pen 4 mm tip, ~800 uses  40086 Super HT Pap Pen 4 mm tip, ~800 uses  40087 Paraformaldehyde, 4% in PBS, Ready-to-Use Fixative  40088 Paraformaldehyde, 4% in PBS, Ready-to-Use Fixative  40089 Paraformaldehyde, 4% in PBS, Ready-to-Use Fixative  40089 Paraformaldehyde, 4% in PBS, Ready-to-Use Fixative  40080 Paraformaldehyde, 4% in PBS, Ready-to-Use Fixat	23005	CoverGrip™ Coverslip Sealant		
Mini Super HT Pap Pen 2.5 mm tip, ~400 uses  22006 Super HT Pap Pen 4 mm tip, ~800 uses  Mini-Cell Scrapers  Mini-Cell Scrapers  Collect cells from 96-well to 24-well plates Polypropylene, sterile, disposable  Ready-to-use fixation buffer Methanol-free, prepared from EM grade paraformaldehyde No glass ampoules to break, store in the original bottle  Ready-to-use fix/perm buffers for intracellular staining  Mini-Cell Scrapers  Collect cells from 96-well to 24-well plates Polypropylene, sterile, disposable  Ready-to-use fixation buffer Methanol-free, prepared from EM grade paraformaldehyde No glass ampoules to break, store in the original bottle  Ready-to-use fix/perm buffers for intracellular staining  Permeabilization and Blocking Buffer  10X Fish Gelatin Blocking Agent  Fish Gelatin Powder  30% Bovine Serum Albumin Solution  Create hydrophobic barriers around tissue sections Heat-stable to 120°C Insoluble in aqueous buffers, detergents, alcohol and acetone; can be removed with xylen  Collect cells from 96-well to 24-well plates Polypropylene, sterile, disposable  Ready-to-use fix/perm buffers for intracellular staining  Convenient buffers and blocking agents for immunofluorescence or western	40061	RedDot™2 Far Red Nuclear Counterstain		
Super HT Pap Pen 4 mm tip, ~800 uses      Mini-Cell Scrapers      Mini-Cell Scrapers      Paraformaldehyde, 4% in PBS, Ready-to-Use Fixative      Ready-to-use fixation buffer      No glass ampoules to break, store in the original bottle      Ready-to-use fix/perm buffers for intracellular staining      Permeabilization and Blocking Buffer      Dovenient buffers and blocking agents for immunofluorescence or western      Collect cells from 96-well to 24-well plates      Polypropylene, sterile, disposable      Ready-to-use fixation buffer      No glass ampoules to break, store in the original bottle      Ready-to-use fix/perm buffers for intracellular staining      Convenient buffers and blocking agents for immunofluorescence or western	40083	NucSpot® 470 Nuclear Stain,	Green fluorescent nuclear-specific counterstain for fixed cells or tissues	
Super HT Pap Pen 4 mm tip, ~800 uses  Mini-Cell Scrapers  Mini-Cell Scrapers  Paraformaldehyde, 4% in PBS, Ready-to-Use Fixative  Paraformaldehyde, 4% in PBS, Ready-to-Use Fi	22005	Mini Super <sup>HT</sup> Pap Pen 2.5 mm tip, ~400 uses		
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Paraformaldehyde, 4% in PBS, Ready-to-Use Fixative  • Methanol-free, prepared from EM grade paraformaldehyde • No glass ampoules to break, store in the original bottle  • Ready-to-use fix/perm buffers for intracellular staining  10X Phosphate Buffered Saline (PBS) 4L Cubitainer®  22017 Permeabilization and Blocking Buffer  22010 10X Fish Gelatin Blocking Agent  22011 Fish Gelatin Powder  22014 30% Bovine Serum Albumin Solution  • Methanol-free, prepared from EM grade paraformaldehyde • No glass ampoules to break, store in the original bottle  • Ready-to-use fix/perm buffers for intracellular staining  • Convenient buffers and blocking agents for immunofluorescence or western	22003	Mini-Cell Scrapers		
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22017 Permeabilization and Blocking Buffer 22010 10X Fish Gelatin Blocking Agent 22011 Fish Gelatin Powder 22014 30% Bovine Serum Albumin Solution  22014 Permeabilization and Blocking Buffer 22016 Convenient buffers and blocking agents for immunofluorescence or western	23006	Flow Cytometry Fixation/Permeabilization Kit	Ready-to-use fix/perm buffers for intracellular staining	
22010 10X Fish Gelatin Blocking Agent 22011 Fish Gelatin Powder 22014 30% Bovine Serum Albumin Solution • Convenient buffers and blocking agents for immunofluorescence or western	22020	10X Phosphate Buffered Saline (PBS) 4L Cubitainer®		
22011 Fish Gelatin Powder  22014 30% Bovine Serum Albumin Solution  • Convenient buffers and blocking agents for immunofluorescence or western	22017	Permeabilization and Blocking Buffer	Convenient buffers and blocking agents for immunofluorescence or western	
22011 Fish Gelatin Powder 22014 30% Bovine Serum Albumin Solution	22010	10X Fish Gelatin Blocking Agent		
	22011	Fish Gelatin Powder		
22002 Tween®-20	22014	30% Bovine Serum Albumin Solution		
	22002	Tween®-20		

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