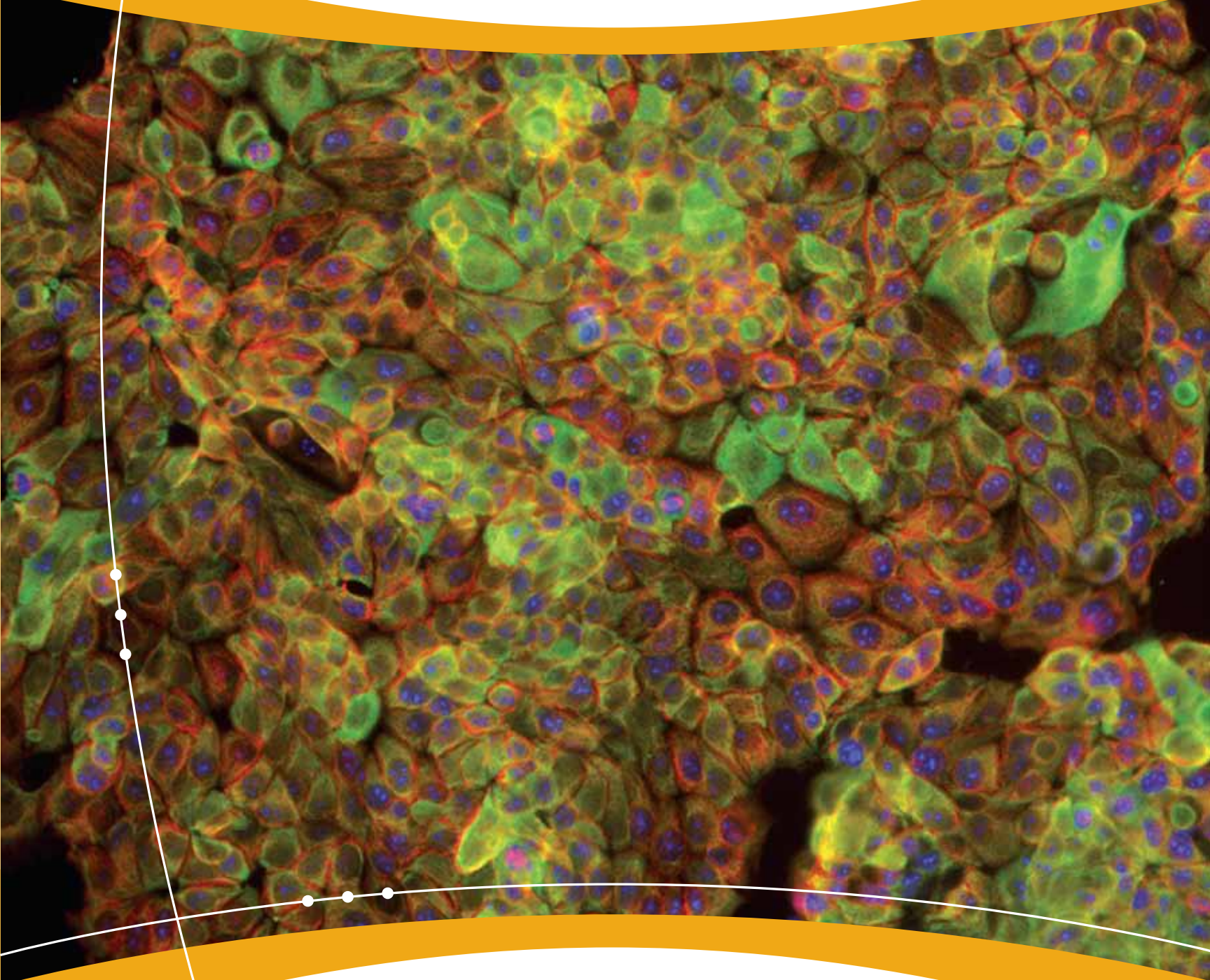
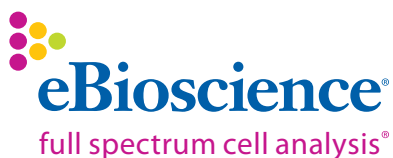


Multicolor Immunohistochemistry

Product Guide





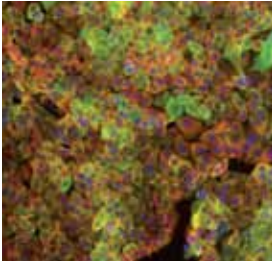
eBioscience is committed to developing and manufacturing high-quality, innovative reagents in an ISO certified facility. As a provider of more than 10,000 products, we empower our customers worldwide to obtain exceptional results by using reagents that offer a new standard of excellence in the areas of innovation, quality and value.

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Multicolor Immunohistochemistry (IHC)

Product Guide

eFluor® Nanocrystals and eFluor® Organic Dyes for Immunohistochemistry and other Fluorescence Imaging applications

eBioscience is an industry-leading provider of high-quality antibodies conjugated to a variety of fluorophores for use in flow cytometry, immunofluorescence microscopy and other key applications. With the introduction of our eFluor® brand of fluorophores, including eFluor® Nanocrystals and eFluor® Organic Dyes, eBioscience offers the widest selection of dyes and fluorometric reagents available.

eFluor® Reagents for Fluorescence Microscopy, Live Tissue and Cell Imaging

eFluor® Nanocrystals (NC)

- Direct conjugates for multiple applications
- Narrow emission spectra and excellent photostability

eFluor® Organic Dyes

- Direct conjugates for multiple applications
- Robust performance for all work flow scenarios

eFluor[®] Nanocrystal Conjugation Kits

- Overview
- eFluor[®] Nanocrystal Conjugation Kit – Amine Reactive
- eFluor[®] Nanocrystal Conjugation Kit – Sulfhydryl Reactive

Conjugate your antibody to eFluor[®] Nanocrystals in the morning, and use it in the afternoon!

Overview

eBioscience recognizes that many life science laboratories develop their own unique or specialized antibodies and proteins, where a simple, easy-to-use method for generating fluorophore-conjugated proteins would be ideal. We have used our expertise in manufacturing quality, fluorophore-conjugated antibodies to create eFluor[®] Nanocrystal Conjugation Kits.

These unique kits allow you to **combine the power of Nanocrystals** with your own antibody or protein of interest, enabling their use in multiple fluorescence applications such as flow cytometry and immunofluorescence microscopy.

Key features of **eBioscience eFluor[®] Nanocrystal Conjugation Kits** include:

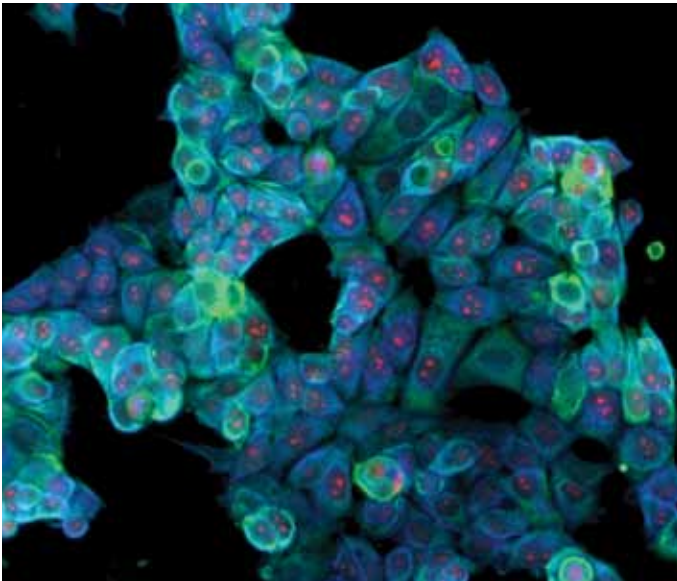
- **Easy to perform** – optimized kits deliver a complete, simple protocol for protein conjugation
- **Fast** – under 30 minutes “hands on” time. Compare with other protein conjugation kits requiring > 3 hrs
- **Consistent results** – all key reagents are included, giving you dependable results every time
- **Flexible** – offered in two chemistries, Amine-Reactive and Sulfhydryl-Reactive, for optimal labeling of your protein

Choose your Kit

Two high-performance options for nanocrystal conjugation allow you to choose the kit best suited for your antibody or protein target. These kits are designed for conjugation to either free amine (-NH₂) or to sulfhydryl (thiol) groups, either of which may be present in your protein of interest. For additional details about choosing the kit that is right for you, visit www.ebioscience.com to view our technical tips and protocols or contact our experienced technical support scientists.

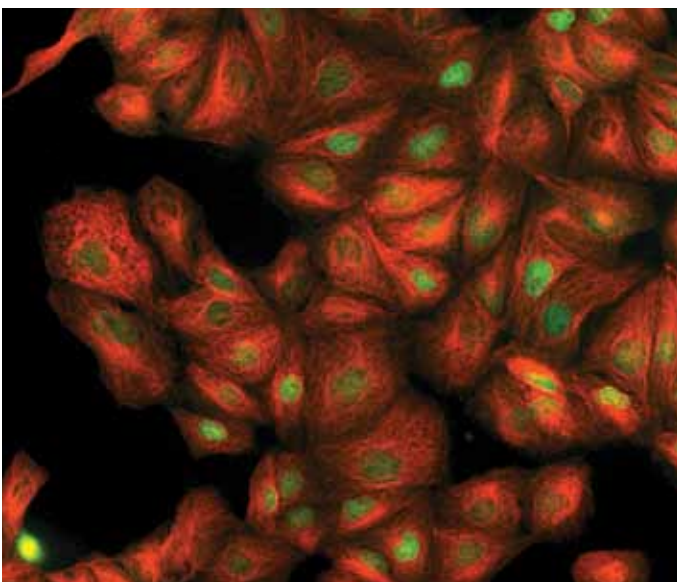
eFluor® Nanocrystal Conjugation Kits

Product	Cat. No.	Fluorophore	Application Notes	Size
eFluor® Nanocrystal Conjugation Kit – Amine Reactive	88-7071-98 88-7072-98	eFluor® 605NC eFluor® 650NC	Conjugation to biomolecules containing primary amines (-NH ₂) Use labeled products for Immunocytochemistry, Immunohistochemistry, or Flow Cytometry	Suitable for performing two protein / antibody conjugations
eFluor® Nanocrystal Conjugation Kit – Sulfhydryl Reactive	88-7141-98 88-7142-98	eFluor® 605NC eFluor® 650NC	Conjugation to biomolecules containing thiol, cysteine, or disulfide groups Use labeled products for Immunocytochemistry, Immunohistochemistry, or Flow Cytometry	Suitable for performing two protein / antibody conjugations



eFluor® Nanocrystal Conjugation of Monoclonal Antibodies

MCF-7 cells were stained using Anti-Cytokeratin (AE1) eFluor® 605NC (pseudo-colored blue) and Anti-Tubulin (DM1A) eFluor® 650NC (green) reagents conjugated using eFluor® Nanocrystal Conjugation Kit – Sulfhydryl Reactive. Anti-Ki67 (20Raj1) Alexa Fluor® 647 is shown in red.

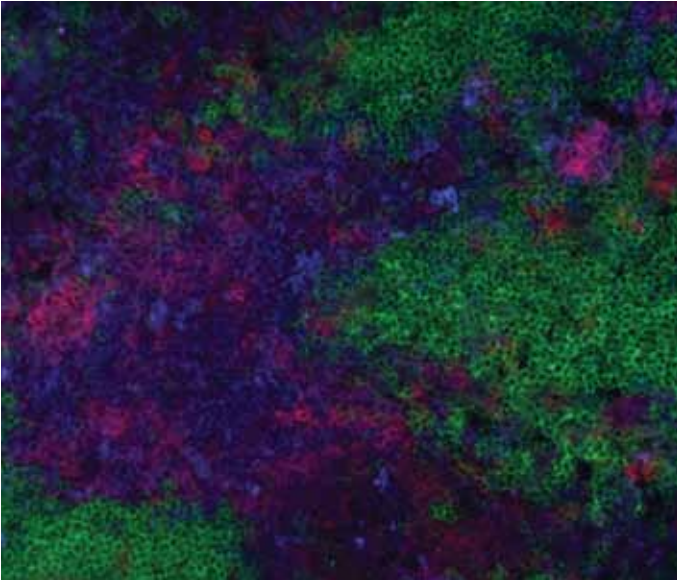


eFluor® Nanocrystal Conjugation of Polyclonal Antibodies

MDCK cells stained with polyclonal Rabbit Anti-Histone H3 eFluor® 605NC (green) conjugated using eFluor® Nanocrystal Conjugation Kit – Amine Reactive. Anti-Tubulin (DM1A) eFluor® 650NC is shown in red.

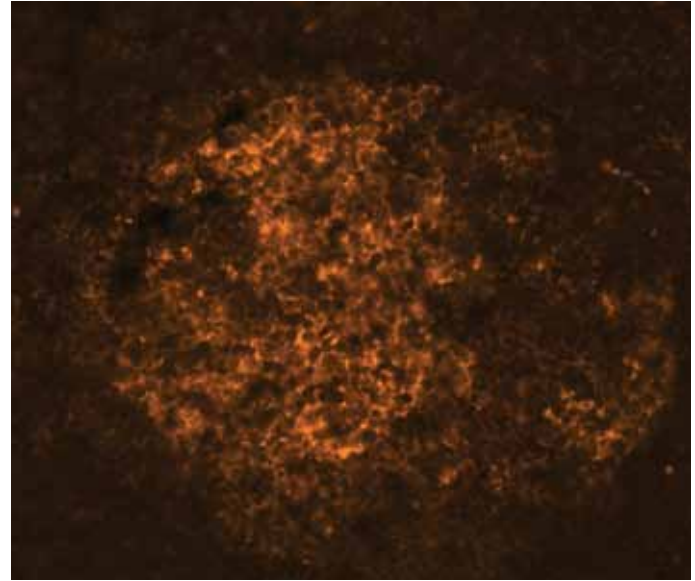
eFluor® Nanocrystal Conjugation Kit – Amine Reactive

- Conjugate eFluor® Nanocrystals to proteins through free amine (-NH₂) groups
- Optimized for antibodies; may also be used for labeling other proteins (MW between 30-150 kDa)
- Use labeled products for Immunocytochemistry, Immunohistochemistry, or Flow Cytometry



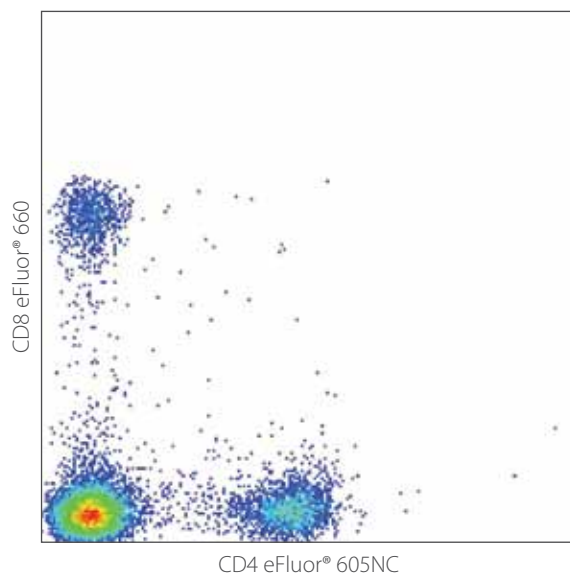
eFluor® Nanocrystals for Immunohistochemistry on frozen tissue

Frozen mouse spleen stained with Anti-CD4 eFluor® 605NC (blue) and Anti-CD11c eFluor 650NC (red) reagents conjugated using eFluor® Nanocrystal Conjugation Kit – Amine Reactive. Anti-CD45R(B220) Alexa Fluor® 488 staining shown in green.



eFluor® Nanocrystals for Immunohistochemistry on formalin-fixed, paraffin-embedded tissue (FFPE)

Staining of a lymphoid follicle in FFPE human tonsil tissue using Anti-CD20 (L26) eFluor® 605NC reagent conjugated using eFluor® Nanocrystal Conjugation Kit – Amine Reactive.



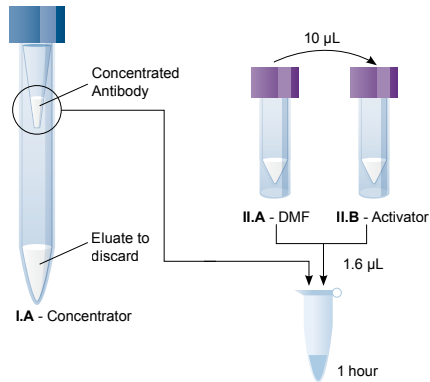
eFluor® Nanocrystals for Flow Cytometry

Mouse splenocytes were stained with Anti-CD4 (GK1.5) conjugated to eFluor® 605NC using the eFluor® Nanocrystal Conjugation Kit- Amine Reactive and Anti-CD8 (53-6.7) eFluor® 660. Cells in the lymphocyte gate are shown.

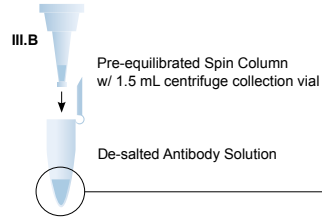
Simple 5-Step Protocol

Compare to other conjugation kits requiring over 10 steps!

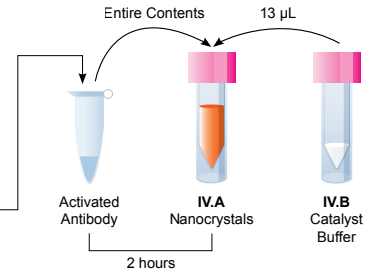
I. Amine-Group Activation of Sample



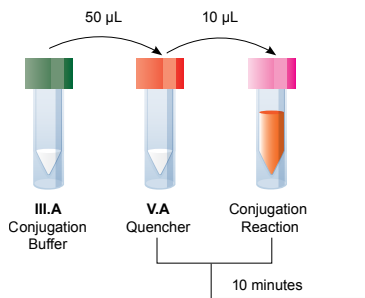
II. De-Salting of Activated Antibody



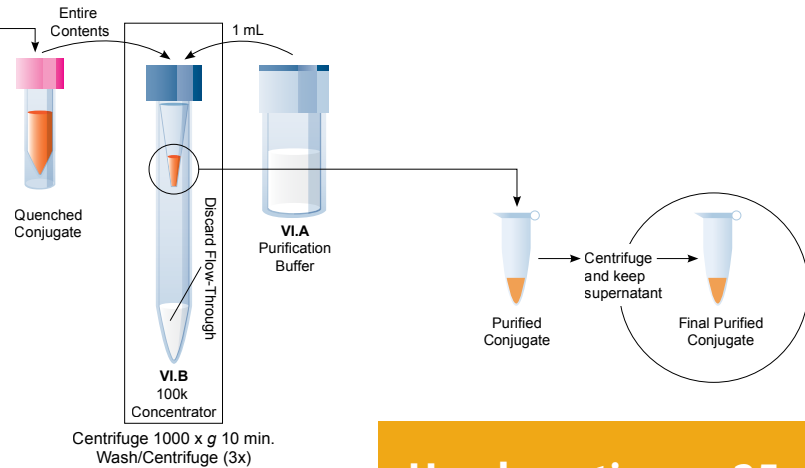
III. Conjugation of Activated Antibody to eFluor® Nanocrystal



IV. Quenching the Conjugation Reaction



V. Purification of the eFluor® Nanocrystal Conjugate



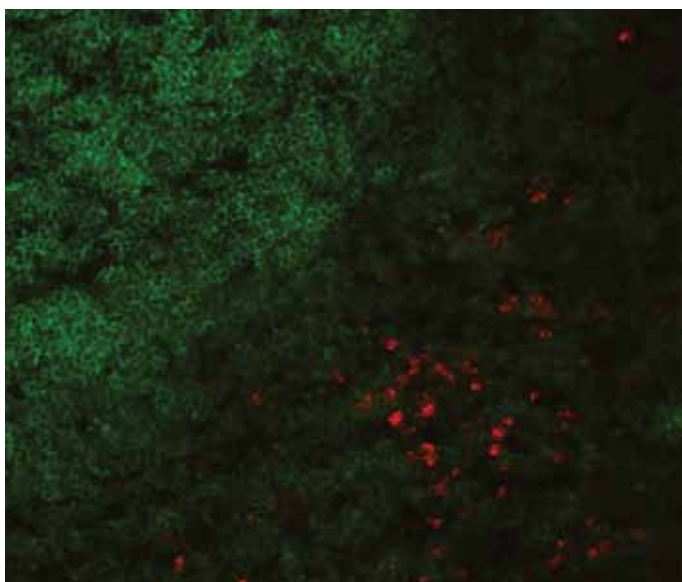
Hands on time: < 25 min
Total Protocol: < 5 hr

Product Ordering Information

Product	Cat. No.	Fluorophore	Application Notes	Size
eFluor® Nanocrystal Conjugation Kit – Amine Reactive	88-7071-98	eFluor® 605NC	Conjugation to biomolecules containing primary amines (-NH ₂) Use labeled products for Immunocytochemistry, Immunohistochemistry, or Flow Cytometry	Suitable for performing two protein / antibody conjugations
	88-7072-98	eFluor® 650NC		

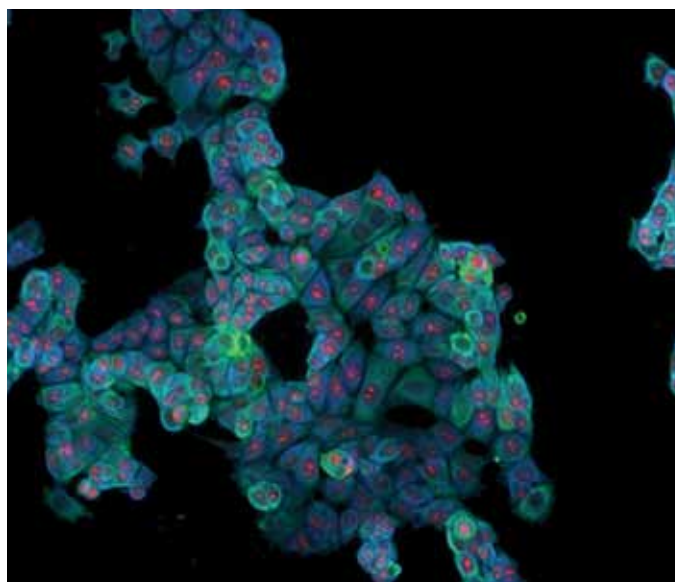
eFluor® Nanocrystal Conjugation Kit – Sulfhydryl Reactive

- Conjugate eFluor® Nanocrystals to proteins containing sulfhydryl (thiol), cysteine, or disulfide groups
- Optimized for antibodies; may also be used for labeling other proteins (MW between 30-150 kDa)
- Use labeled products for Immunocytochemistry, Immunohistochemistry, or Flow Cytometry



eFluor® Nanocrystals for Immunohistochemistry on frozen tissue

Frozen mouse spleen stained with Anti-CD11b (M1/70) eFluor® 650NC (red), conjugated using eFluor® Nanocrystal Conjugation Kit – Sulfhydryl Reactive. Anti-CD45R (B220) Alexa Fluor® 488 staining shown in green.



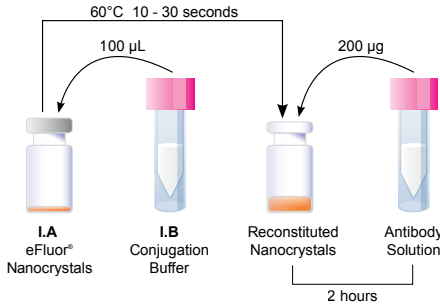
eFluor® Nanocrystals for Immunocytochemistry

MCF-7 cells were stained using Anti-Cytokeratin (AE1) eFluor® 605NC (blue) and Anti-Tubulin (DM1A) eFluor® 650NC (green) reagents conjugated using eFluor® Nanocrystal Conjugation Kit – Sulfhydryl Reactive. Anti-Ki67 (20Raj1) Alexa Fluor® 647 is shown in red.

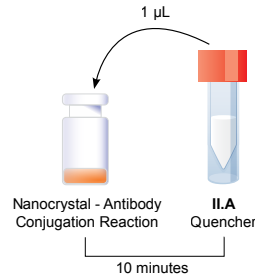
Simple 3-Step Protocol

Compare to other conjugation kits requiring over 10 steps!

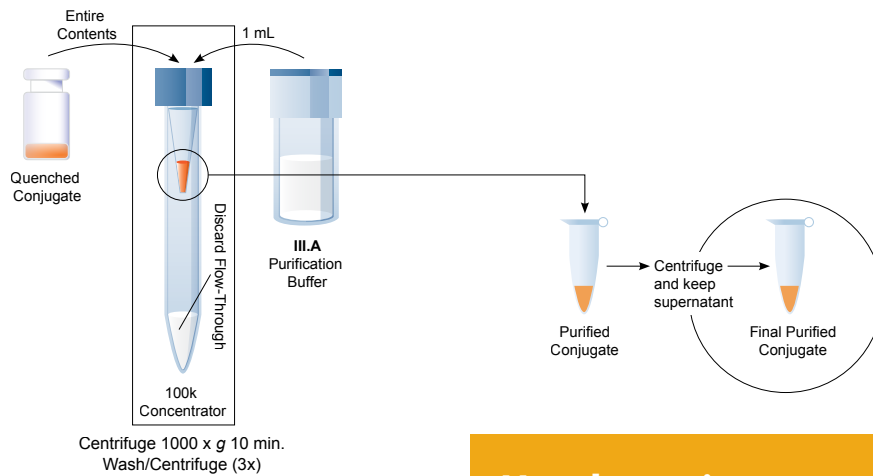
I. eFluor® Nanocrystal Conjugation



II. Quenching the Reaction



III. Purification of the eFluor® Nanocrystal Conjugate



Hands on time: < 15 min
Total Protocol: < 4 hr

Product Ordering Information

Product	Cat. No.	Fluorophore	Application Notes	Size
eFluor® Nanocrystal Conjugation Kit – Sulfhydryl Reactive	88-7141-98 88-7142-98	eFluor® 605NC eFluor® 650NC	Conjugation to biomolecules containing sulfhydryl (thiol), cysteine, or disulfide groups Use labeled products for Immunocytochemistry, Immunohistochemistry, or Flow Cytometry	Suitable for performing two protein / antibody conjugations

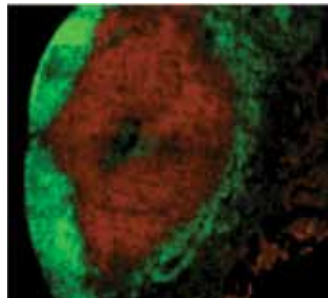
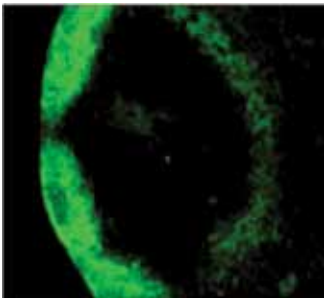
Reagents for Fluorescence Microscopy

- eFluor® Nanocrystals
- Organic Dyes

eFluor® Nanocrystals

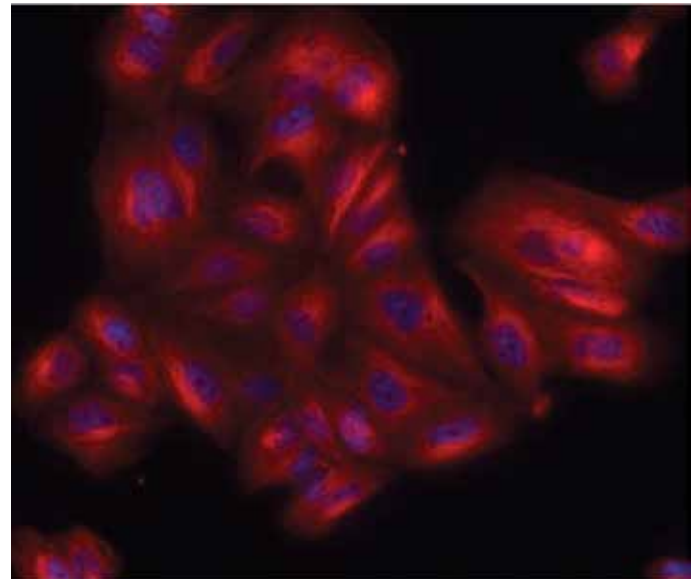
These high quantum yield nanocrystals are composed of a core particle surrounded by a unique surface coating which reduces background staining and artifacts. eFluor® Nanocrystals possess intrinsic spectral properties which allow them to emit light over a variety of distinct wavelengths when excited by a single wavelength light source. Using eFluor® Nanocrystals for immunofluorescence allows you to take advantage of their inherent photostability; **Nanocrystals are resistant to fading, even over long periods of illumination.** These unique physical and spectral properties make eFluor® Nanocrystals an optimal choice for multicolor applications.

- Intrinsically **bright** and exceptionally **photostable** with **narrow emission spectra**
- Provided as a portfolio of ready-to-use antibody conjugates for mouse and human targets
- Ideal for staining cultured cells, as well as frozen or paraffin-embedded tissue samples



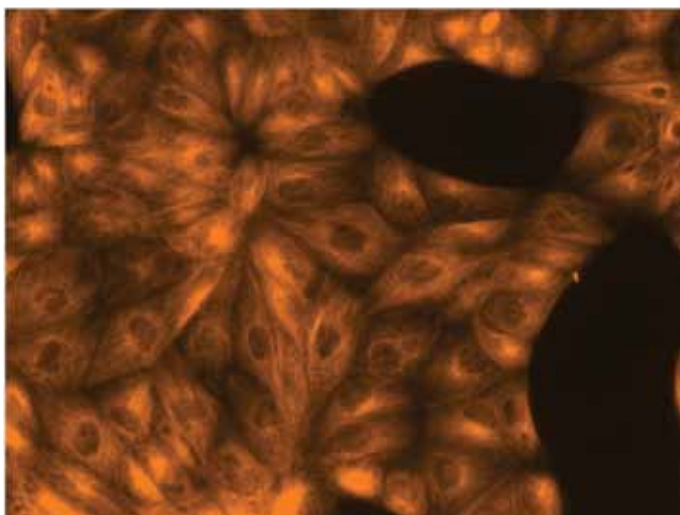
Frozen tissue section stained with Streptavidin eFluor® 605NC

Mouse lymph node stained with either no primary antibody (left) or Anti-Mouse CD3 Biotin (145-2C11) (right), and subsequently with Streptavidin eFluor® 605NC (red) to visualize the T cell zone. Anti-Mouse CD45R (B220) (RA3-6B2) FITC was used to identify B cell follicles (green).



eFluor® NC - Conjugated Primary Antibodies for Immunocytochemistry

Tubulin-eFluor® 650NC staining of fixed, permeabilized MDCK cells. Nuclei are counterstained with DAPI.

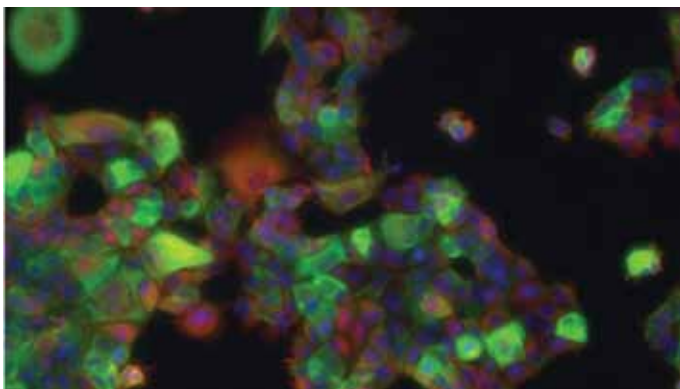


eFluor® NC second-step reagents for Immunocytochemistry

Fixed, permeabilized MDCK cells stained using 1µg/mL Anti-alpha Tubulin (DM1A) (cat. no. 14-4502) followed by Anti-Mouse IgG Biotin (cat. no. 13-4013) and Streptavidin eFluor® 605NC (cat. no. 93-2317).

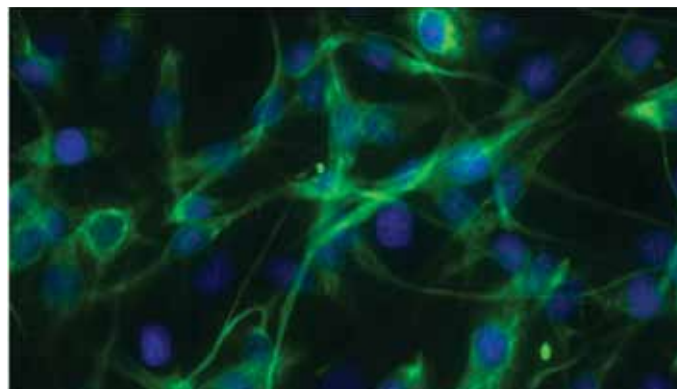
Organic Dyes

eFluor® Nanocrystals are **fully compatible with other organic dyes** to maximize the data that can be obtained from a single sample. eBioscience offers a broad portfolio of biological content and fluorophore choices for designing multicolor staining panels.



Cytokeratin Alexa Fluor® 488 and Streptavidin eFluor® 605NC

Multicolor staining of fixed, permeabilized MCF-7 cells stained using Anti-Pan Cytokeratin (AE1/AE3) Alexa Fluor® 488 (cat. no. 53-9003)(green), Anti-alpha Tubulin Biotin (DM1A) (cat. no. 13-4502), and followed by Streptavidin eFluor® 605NC (cat. no. 93-2317)(red). 10nM DRAQ5 used as a nuclear stain (cat. no. 65-0880)(blue).



Vimentin FITC

Vimentin, an intermediate filament expressed in some progenitor cells, visualized by immunocytochemical staining of fixed, permeabilized C6 rat glioma cells using Anti-Vimentin FITC (cat. no. 11-9897). Nuclei are counterstained with DAPI.

eBioscience offers eFluor® Nanocrystals and eFluor® Organic Dyes conjugated to antibodies reactive to a large selection of mouse and human targets for **immunology**, **cancer biology** and **stem cell research**. Visit www.eBioscience.com for complete listing of products.

eFluor[®] Nanocrystals for Live Tissue and Cell Imaging

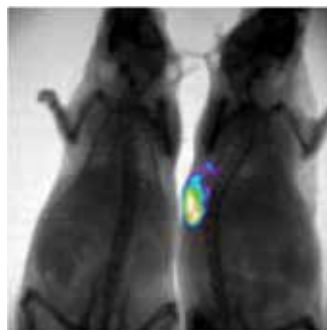
- Overview
- Non-functionalized eFluor[®] Nanocrystals
- Reactive eFluor[®] Nanocrystals

Overview

The utility of eFluor[®] Nanocrystals extends to applications beyond antigen detection. The eFluor[®] 700NC is manufactured with an indium gallium phosphide core that alleviates the toxicity and safety issues associated with other nanocrystals containing a heavy metal core. These high quantum yield core particles are surrounded by a unique surface coating that reduces background staining and artifacts.

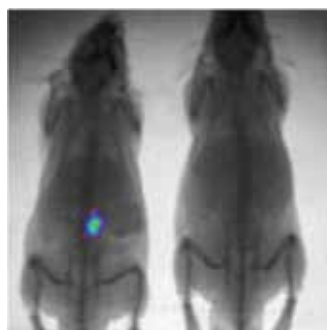
Non-functionalized eFluor[®] Nanocrystals

eFluor[®] Nanocrystals for imaging have been successfully introduced into live animals to facilitate visualization of the vascular and lymphatic systems as well as tumors. Due to the inherent high level of photostability of eFluor[®] Nanocrystals, continuous observations are possible over periods of hours to days.



eFluor[®] Nanocrystals can be used to visualize solid tumor *in vivo*.

Mice were injected with either PBS (left mouse) or with 100 pmol of eFluor[®] 700NC (non-functionalized, cat. no. 96-6374) (right mouse) into a subcutaneous tumor.



eFluor[®] Nanocrystals can be used to image tissue *in vivo*.

Mice were injected with either PBS (right mouse) or with 100 pmol of eFluor[®] 700NC (non-functionalized, cat. no. 96-6374) (left mouse) into the liver at a depth of 1.5 cm.

Reactive eFluor® Nanocrystals

eFluor® Nanocrystals are available in both amine or carboxyl reactive formats suitable for labeling cells in culture. The excellent photostability of eFluor® Nanocrystals will permit the tracking of labeled cells following transfer into a host animal.

eFluor® Nanocrystals for *In vivo* Imaging

Catalog Number	Product	Emission (nm)	Composition
96-6364	eFluor® 700NC (Carboxyl)	700	InGaP
96-6366	eFluor® 700NC (Amine)	700	InGaP
96-6374	eFluor® 700NC (Non-functionalized)	700	InGaP

eFluor® Nanocrystals

Catalog Number	Product	Emission (nm)	Composition
90-6364	eFluor® 490NC (Carboxyl)	490	CdSe
91-6364	eFluor® 525NC (Carboxyl)	525	CdSe
92-6364	eFluor® 565NC (Carboxyl)	565	CdSe
82-6364	eFluor® 585NC (Carboxyl)	585	CdSe
93-6364	eFluor® 605NC (Carboxyl)	605	CdSe
94-6364	eFluor® 625NC (Carboxyl)	625	CdSe
95-6364	eFluor® 650NC (Carboxyl)	650	CdSe
90-6366	eFluor® 490NC (Amine)	490	CdSe
91-6366	eFluor® 525NC (Amine)	525	CdSe
92-6366	eFluor® 565NC (Amine)	565	CdSe
82-6366	eFluor® 585NC (Amine)	585	CdSe
93-6366	eFluor® 605NC (Amine)	605	CdSe
94-6366	eFluor® 625NC (Amine)	625	CdSe
95-6366	eFluor® 650NC (Amine)	650	CdSe
90-6374	eFluor® 490NC (Non-functionalized)	490	CdSe
91-6374	eFluor® 525NC (Non-functionalized)	525	CdSe
92-6374	eFluor® 565NC (Non-functionalized)	565	CdSe
82-6374	eFluor® 585NC (Non-functionalized)	585	CdSe
93-6374	eFluor® 605NC (Non-functionalized)	605	CdSe
94-6374	eFluor® 625NC (Non-functionalized)	625	CdSe
95-6374	eFluor® 650NC (Non-functionalized)	650	CdSe



New products are launched regularly. **Discover more at** www.eBioscience.com.

Antibodies Validated for Immunohistochemistry

Cat. No.	Specificity	Clone	Species Reactivity	Format
14-5959	Activation-Induced Cytidine Deaminase (AID)	mAID-2	Human, Mouse	Purified
14-1028	Bcl-2	Bcl-2/100	Human	Purified
14-9887	Bcl-6	GI191E	Mouse	Purified
14-5963	Blimp1	6D3	Human, Mouse	Purified
14-5071	BrdU	BU20A	Human, Mouse, Rat	Purified
14-0031	CD3e	145-2C11	Mouse	Purified
11-0036	CD3	SK7	Human	FITC
14-0032	CD3	17A2	Mouse	Purified
14-0030	CD3	eBioG4.18 (G4.18)	Rat	Purified
14-0041	CD4	GK1.5	Mouse	Purified
13-0042	CD4	Rm4-5	Mouse	Biotin
coming soon	CD4	Rm4-5	Mouse	eFluor® 605NC
coming soon	CD4	Rm4-5	Mouse	eFluor® 625NC
coming soon	CD4	Rm4-5	Mouse	eFluor® 650NC
14-0040	CD4	OX35	Rat	Purified
14-0051	CD5	53-7.3	Mouse	Purified
11-0081	CD8a	53.6-7	Mouse	FITC
50-0081	CD8a	53.6-7	Mouse	eFluor® 660
coming soon	CD8a	53.6-7	Mouse	eFluor® 605NC
coming soon	CD8a	53.6-7	Mouse	eFluor® 625NC
coming soon	CD8a	53.6-7	Mouse	eFluor® 650NC
14-0084	CD8a	OX8	Rat	Purified
14-0083	CD8b	eBioH35-17.2	Mouse	Purified
coming soon	CD11b	M1/70	Mouse	eFluor® 605NC
coming soon	CD11b	M1/70	Mouse	eFluor® 650NC
14-0114	CD11c	N418	Mouse	Alexa Fluor® 647
coming soon	CD11c	N418	Mouse	eFluor® 625NC
coming soon	CD11c	N418	Mouse	eFluor® 650NC
14-0149	CD14	61D3	Human	Purified
13-0159	CD15	HI98	Human	Biotin
14-0181	CD18	M18/2	Mouse	Purified
14-0199	CD19	HIB19	Human	Purified
14-0193	CD19	eBio1D3 (1D3)	Mouse	Purified
14-0242	CD24	M1/69	Mouse	Purified
17-0390	CD25	OX39	Rat	APC
13-0390	CD25	OX39	Rat	Biotin
14-0281	CD28	37.51	Mouse	Purified
14-0292	CD29	KMI6	Mouse	Purified
14-0309	CD30	Ber-H2	Human	Purified
coming soon	CD31 (PECAM-1)	390	Mouse	eFluor® 605NC
coming soon	CD31 (PECAM-1)	390	Mouse	eFluor® 650NC
14-0311	CD31 (PECAM-1)	390	Mouse	Purified
14-0402	CD40	HM40-3	Mouse, Rat	Purified

 New products are launched regularly. **Discover more at www.eBioscience.com.**

Antibodies Validated for Immunohistochemistry (continued)

Cat. No.	Specificity	Clone	Species Reactivity	Format
14-0441	CD44	IM7	Human, Mouse	Purified
14-0451	CD45	30-F11	Mouse	Purified
11-0452	CD45R (B220)	Ra3-6B2	Human, Mouse	FITC
coming soon	CD45R (B220)	Ra3-6B2	Human, Mouse	eFluor® 605NC
coming soon	CD45R (B220)	Ra3-6B2	Human, Mouse	eFluor® 650NC
14-0460	CD45R (B220)	HIS24	Rat	Purified
14-0458	CD45RA	HI100	Human	Purified
14-0455	CD45RB	C363.16A	Mouse	Purified
14-0457	CD45RO	UCHL1	Human	Purified
14-0491	CD49b (Integrin alpha 2)	HMa2	Mouse	Purified
14-0492	CD49d (Integrin alpha 4)	R1-2	Mouse	Purified
14-0567	CD56 (NCAM)	CMSSB	Human	Purified
14-0549	CD54 (ICAM-1)	HA58	Human	Purified
14-0542	CD54 (ICAM-1)	eBioKAT-1 (KAT-1, KAT1)	Mouse	Purified
14-0541	CD54 (ICAM-1)	YN1/1.7.4	Mouse	Purified
13-0567	CD56 (NCAM)	CMSSB	Human	Biotin
14-0611	CD61 (Integrin beta 3)	2C9.G3	Mouse, Rat	Purified
14-0627	CD62E (E-Selectin)	P2H3	Human	Purified
14-0621	CD62L (L-Selectin)	MEL-14	Mouse	Purified
14-0669	CD66e	CB30	Human	Purified
14-0691	CD69	H1.2F3	Mouse	Purified
14-0731	CD73	eBioTY/11.8 (TY/11.8)	Mouse	Purified
14-0791	CD79a	24C2.5	Mouse	Purified
coming soon	CD74	VIC-Y1	Human	Purified
14-0901	CD90 (Thy-1)	G7	Mouse	Purified
14-0902	CD90.2 (Thy-1.2)	53-2.1	Mouse	Purified
14-5892	CD93 (AA4.1)	AA4.1	Mouse	Purified
14-0959	CD95 (APO-1/Fas)	DX2	Human	Purified
14-1001	CD100 (SEMA4D)	BMA12 (BMA-12)	Mouse	Purified
14-1029	CD102 (ICAM-2)	CBRIC2/2	Human	Purified
53-1021	CD102 (ICAM-2)	3C4 (mIC2/4)	Mouse	Alexa Fluor® 488
51-1049	CD104 (Integrin beta 4)	439-9B	Human	Alexa Fluor® 647
14-1061	CD106 (VCAM-1)	429	Mouse	Purified
14-1060	CD106 (VCAM-1)	eBioMR106 (MR106)	Rat	Purified
14-1079	CD107a (LAMP-1)	eBioH4A3	Human	Purified
14-1071	CD107a (LAMP-1)	eBio1D4B (1D4B)	Mouse	Purified
14-1072	CD107b (LAMP-2)	eBioABL-93 (ABL-93)	Mouse	Purified
14-5989	CD107b (Mac-3)	M3/84	Mouse	Purified
14-1172	CD117 (c-Kit)	ACK2	Mouse	Purified
14-1271	CD127	A7R34	Mouse	Purified
14-1331	CD133 (Prominin-1)	13A4	Mouse	Purified
14-1401	CD140a (PDGF Receptor a)	APA5	Mouse	Purified
14-1402	CD140b (PDGF Receptor b)	APB5	Mouse	Purified



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Antibodies Validated for Immunohistochemistry (continued)

Cat. No.	Specificity	Clone	Species Reactivity	Format
13-1441	CD144 (VE-Cadherin) Biotin	eBioBV13 (BV13)	Mouse	Biotin
53-1441	CD144 (VE-Cadherin)	eBioBV13 (BV13)	Mouse	Alexa Fluor® 488
14-9991	CD184 (CXCR4)	2B11	Mouse	Purified
14-5200	CD200	OX90	Mouse	Purified
14-5987	CD202b (TIE2)	TEK4	Mouse	Purified
14-9893	CD227 (Mucin 1)	SM3	Human	Purified
53-9893	CD227 (Mucin 1)	SM3	Human	Alexa Fluor® 488
14-2799	CD279 (PD-1)	eBioJ105 (J105)	Human	Purified
14-9911	CD281 (TLR1)	GD2.F4	Human	Purified
14-9024	CD282 (TLR2)	T2.5	Human, Mouse	Purified
14-9922	CD282 (TLR2)	TL2.1	Human	Purified
14-9029	CD282 (TLR2)	TL2.3	Human	Purified
14-9039	CD283 (TLR3)	TLR3.7	Human	Purified
14-9917	CD284 (TLR4)	HTA125	Human	Purified
14-9099	CD289 (TLR9)	eB72-1665	Human	Purified
14-5821	CD309 (FLK1)	Avas12a1	Mouse	Purified
13-3249	CD324 (E-Cadherin)	DECMA-1	Human, Mouse, Canine	Biotin
53-3249	CD324 (E-Cadherin)	DECMA-1	Human, Mouse, Canine	Alexa Fluor® 488
14-3259	CD325 (N-Cadherin)	8C11	Human	Purified
13-9326	CD326 (EpCAM)	1B7	Human	Biotin
14-5791	CD326 (EpCAM)	G8.8	Mouse	Purified
14-9001	Acidic Cytokeratin	AE1	Human, Mouse, Rat, NHP, Canine	Purified
14-9000	Basic Cytokeratin	AE3	Human, Mouse, Rat, NHP, Canine	Purified
53-9003	Pan-Cytokeratin	AE1/AE3	Human, Mouse, Rat, NHP, Canine	Alexa Fluor® 488
14-9005	Cytokeratin 7	LP5K	Human	Purified
11-9938	Cytokeratin 8	LP3K	Human	FITC
14-9938	Cytokeratin 8	LP3K	Human	Purified
11-9898	Cytokeratin 19	BA17	Human	FITC
14-9898	Cytokeratin 19	BA17	Human	Purified
14-5884	Dendritic Cell Marker (33D1)	33D1	Mouse	Purified
14-5839	Embigin	G7.43.1	Mouse	Purified
14-5851	Endomucin	eBioV.7C7 (V.7C7)	Mouse	Purified
14-5852	ESAM	1G8	Mouse	Purified
14-4801	F480Antigen	BM8	Mouse	Purified
14-9965	FoxJ1	2A5	Human, Mouse	Purified
14-9962	Foxp1	JC12 (JC-12)	Human	Purified
13-4776	Foxp3	PCH101	Human	Biotin
14-4776	Foxp3	PCH101	Human	Purified
11-5773	Foxp3	FJK-16s	Mouse, Rat	FITC
14-5773	Foxp3	FJK-16s	Mouse, Rat	Purified
13-4777	Foxp3	236A	Human	Biotin
14-9980	Gata-4	eBioEVAN	Human, Mouse	Purified

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Antibodies Validated for Immunohistochemistry (continued)

Cat. No.	Specificity	Clone	Species Reactivity	Format
14-5301	Galectin-3	eBioM3/38 (M3/38)	Human, Mouse	Purified
14-5902	GL7 (T and B Cell Activation Marker)	GL-7 (GL7)	Human, Mouse	Purified
14-9892	Glial Fibrillary Acid Protein (GFAP)	GA5	Human, Mouse, Rat, Pig	Purified
53-9892	Glial Fibrillary Acid Protein (GFAP)	GA5	Human, Mouse, Rat, Pig	Alexa Fluor® 488
14-8822	Granzyme B	16G6	Mouse	Purified
14-9900	HMGB1	polyclonal	Human, Mouse, Canine	Purified
14-5767	DLL1 (delta-like 1)	HMD1-5	Mouse	Purified
14-5699	Ki-67	20Raj1	Human	Purified
coming soon	Lactoferrin	B97	Human	Purified
coming soon	Ly-6G (Gr-1)	RB6-8C5	Mouse	eFluor® 625NC
14-5931	Ly-6G (Gr-1)	RB6-8C5	Mouse	Purified
50-0443	Lyve-1	ALY7	Mouse	eFluor® 660
53-0443	Lyve-1	ALY7	Mouse	Alexa Fluor® 488
14-9961	MALT1	50	Human	Purified
14-5321	MHC Class II (I-AI-E)	M5/114.15.2	Mouse	Purified
14-9896	Musashi-1	14H1	Human, Mouse, Rat	Purified
14-6784	c-Myc p67	9E10	Human	Purified
14-6785	c-Myc p67	9E11	Human, Mouse	Purified
53-5643	Myogenin	F5D	Human, Mouse, Rat, Canine	Alexa Fluor® 488
14-5843	Nestin	Rat-401	Mouse, Rat	Purified
53-9843	Nestin	10C2	Human	Alexa Fluor® 488
14-9843	Nestin	10C2	Human	Purified
14-5785	Notch1	mN1A	Human, Mouse	Purified
14-5840	OCT2	9A2	Human, Mouse	Purified
51-5841	OCT3/4	EM92	Human, Mouse	Alexa Fluor® 647
53-5841	OCT3/4	EM92	Human, Mouse	Alexa Fluor® 488
14-6715	p21 (WAF1, Cip1)	polyclonal	Human, Mouse, Rat	Purified
14-6786	p53	DO-1	Human	Purified
14-0360	Pan-Endothelium Marker	HIS52	Rat	Purified
14-9918	Pax5	1H9	Human, Mouse	Purified
14-9914	Pax6	AD2.38	Human, Mouse, Rat	Purified
14-9910	PCNA	PC10	Human	Purified
13-5381	Podoplanin	eBio8.1.1 (8.1.1)	Mouse	Biotin
14-9381	Podoplanin	NZ-1.3	Human	Purified
51-3309	Pokemon	1.30E+10	Human	Alexa Fluor® 647
14-0333	Siglec H	eBio440c	Mouse	Purified
14-8813	SSEA-1	eBioMC-480 (MC-480)	Human, Mouse	Purified
14-8833	SSEA-3	eBioMC-631 (MC-631)	Human, Mouse	Purified
14-8843	SSEA-4	eBioMC-813-70 (MC-813-70)	Human	Purified
51-6525	Synaptophysin	EP10	Human	Alexa Fluor® 647
14-6525	Synaptophysin	EP10	Human	Purified
14-8868	TARP	eBioTP1 (TP1, a.k.a 1F8)	Human	Purified



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Antibodies Validated for Immunohistochemistry (continued)

Cat. No.	Specificity	Clone	Species Reactivity	Format
14-6699	TCL1	eBio1-21 (1-21)	Human	Purified
14-5961	TCR beta	H57-597	Mouse	Purified
14-5921	TER-119	TER-119	Mouse	Purified
14-2190	mTOR	F11	Human, Mouse	Purified
14-8863	TRA-1-60 (podocalyxin)	TRA-1-60	Human	Purified
14-6024	Trop-2	MR54	Human	Purified
coming soon	alpha Tubulin	DM1A	Human, Mouse, Rat, Monkey, Canine	eFluor® 605NC
coming soon	alpha Tubulin	DM1A	Human, Mouse, Rat, Monkey, Canine	eFluor® 625NC
coming soon	alpha Tubulin	DM1A	Human, Mouse, Rat, Monkey, Canine	eFluor® 650NC
53-4502	alpha Tubulin	DM1A	Human, Mouse, Rat, Monkey, Canine	Alexa Fluor® 488
11-9897	Vimentin	V9	Human, Rat	FITC
14-9897	Vimentin	V9	Human, Rat	Purified

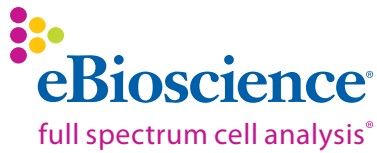
Second-Step and Isotype Control Reagents for Immunohistochemistry

Cat. No.	Specificity	Clone	Format
13-4113	Anti-Armenian Hamster IgG	polyclonal	Biotin
13-4213	Anti-Golden Syrian Hamster IgG	polyclonal	Biotin
14-4914	Golden Syrian Hamster IgG Isotype Control	--	Purified
13-4013	Anti-Mouse IgG	polyclonal	Biotin
50-4714	Mouse IgG1 κ Isotype Control	--	eFluor® 660
50-4752	Mouse IgM Isotype Control	--	eFluor® 660
13-4813	Anti-Rat IgG	polyclonal	Biotin
26-4826	Anti-Rat IgG	polyclonal	TRITC
50-4301	Rat IgG1 κ Isotype Control	--	eFluor® 660
50-4031	Rat IgG2b Isotype Control	--	eFluor® 660
50-4321	Rat IgG2a κ Isotype Control	eBR2a	eFluor® 660
13-9996	Anti-Human Ig λ Light Chain	JDC-12	Biotin
13-4914	Anti-Human Ig λ Light Chain	--	Biotin
11-4839	F(ab)2 Anti-Rabbit IgG	polyclonal	FITC
11-4317	Streptavidin	--	FITC
49-4317	Streptavidin	--	eFluor® 710
93-2317	Streptavidin	--	eFluor® 605NC
95-2317	Streptavidin	--	eFluor® 650NC



Related Products for Immunohistochemistry

Product	Cat. No.	Application Notes
DRAQ5™	65-0880	Discriminate nucleated from non-nucleated cells Assess DNA ploidy/cell cycle
CyTRAK Orange™	65-0881	Discriminate nucleated from non-nucleated cells
IHC/ICC Blocking Buffer - High Protein	00-4952-54	Block non-specific/background antibody binding for IHC and ICC protocols
IHC Blocking Buffer - Low Protein	00-4953-54	Block non-specific/background antibody binding for IHC and ICC protocols



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