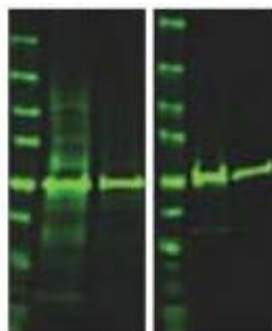
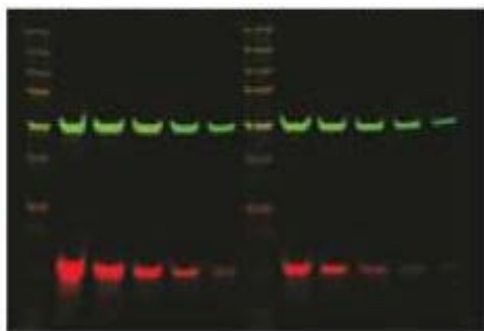
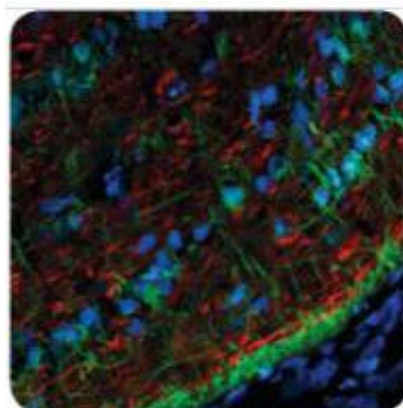
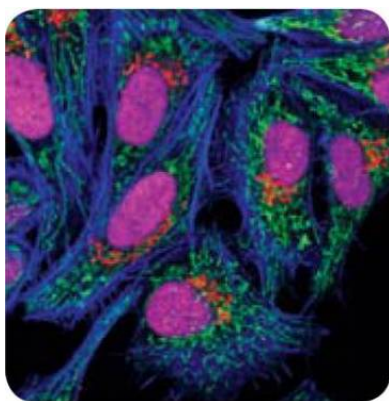


CF™ Dyes

Next Generation Fluorescent Dyes

Secondary antibody



CF™ Dyes Quick Reference Table

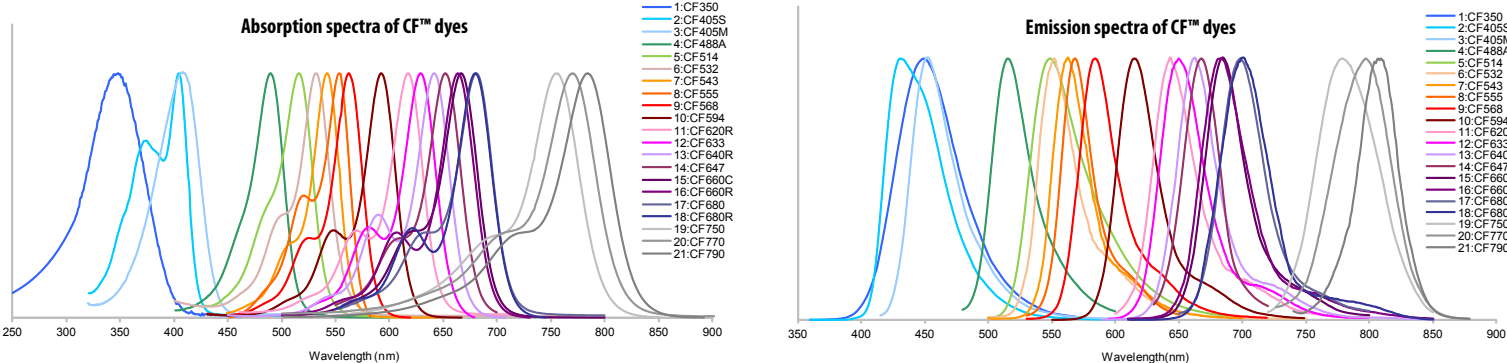
Visible spectrum

Far-red

Near-infrared

CF™dye	λ _{ex} (nm)	λ _{em} (nm)	Excitation source*	Replacement for	Advantages
CF™350	347	448	UV	Alexa Fluor® 350, AMCA, DyLight® 350	• Brightest blue fluorescent conjugates for 350 nm excitation • Highly water-soluble and pH insensitive
CF™405S	404	431	405 nm laser	Alexa Fluor® 405, Cascade Blue®, DyLight® 405	• Better compatibility with common instruments • Highly water-soluble and pH-insensitive
CF™405M	408	452	405 nm laser	BD Horizon™ V450, eFluor® 450, Pacific Blue®	• More photostable than Pacific Blue® dye • Less spill-over in the 525/50 green channel • Highly water-soluble
CF™488A	490	515	488 nm laser	ATTO 488, Alexa Fluor® 488, Cy®2, DyLight® 488, FAM, FITC, Fluorescein	• Yields biologically more specific antibody conjugates and less spill-over fluorescence in the red channel than Alexa Fluor® 488 • Extremely photostable • Highly water-soluble and pH-insensitive
CF™514	516	548	488 nm laser	Alexa Fluor® 514	• Green fluorophore that can be distinguished from CF™488A by spectral unmixing • Extremely photostable • Highly water-soluble and pH-insensitive
CF™532	527	558	532 nm laser	AlexaFluor® 532, ATTO 532	• Significantly brighter than Alexa Fluor® 532 • Highly water-soluble and pH-insensitive
CF™543	541	560	532, 543, or 546 nm laser	Alexa Fluor® 546, Tetramethylrhodamine (TAMRA)	• Significantly brighter than Alexa Fluor® 546 • Highly water-soluble and pH-insensitive
CF™555	555	565	532, 543, 546,, 555, or 568 nm laser	Alexa Fluor® 555, ATTO 550, Cy®3, DyLight® 549, TRITC	• Brighter than Cy®3
CF™568	562	583	532, 543, 546, 555, or 568 nm laser	Alexa Fluor® 568, ATTO 565, Rhodamine Red	• Optimized for the 568 nm line of the Ar-Kr mixed-gas laser • Brighter and more photostable than Alexa Fluor 568
CF™594	593	614	532, 543, 546, 555, or 568 nm laser	Alexa Fluor® 594, ATTO 594, DyLight® 594, Texas Red®	• Yields the brightest conjugates among spectrally similar dyes • Extremely photostable
CF™620R	617	639	633 or 635 nm laser	LightCycler® Red 640	• Highly fluorescent • Extremely photostable and highly water-soluble
CF™633	630	650	633 or 635 nm laser	Alexa Fluor® 633, Alexa Fluor® 647, Cy®5, DyLight® 633	• Yields the brightest antibody conjugates among spectrally similar dyes when excited at 633 nm or the 635 nm • Far more photostable than Alexa Fluor® 647 • Highly water-soluble
CF™640R	642	662	633, 635, or 640 nm laser	Alexa Fluor® 647, ATTO 647N, Cy®5, DyLight® 649	• Has the best photostability among dyes with Cy®5-like spectra • Yields highly fluorescent protein conjugates • Very water-soluble and pH-insensitive
CF™647	650	665	633, 635, or 640 nm laser	Alexa Fluor® 647, ATTO 647N, Cy®5, DyLight® 649	• Brighter than Cy®5 • Highly water-soluble and pH-insensitive
CF™660C	667	685	633, 635, or 640 nm laser	Alexa Fluor® 660	• Much brighter and more photostable than Alexa Fluor® 660 • Highly water-soluble and pH insensitive
CF™660R	663	682	633, 635, or 640 nm laser	Alexa Fluor® 660	• Brighter than Alexa Fluor® 660 • The most photostable 660 nm dye • Highly water-soluble and pH insensitive
CF™680	681	698	680 or 685 nm laser	Alexa Fluor® 680, Cy®5.5, DyLight® 680, IRDye® 680LT	• The brightest among spectrally similar 680 nm dyes • Superior signal-to-noise ratio in immunostaining • Highly water-soluble and pH-insensitive • Compatible with LI-COR Odyssey® System
CF™680R	680	701	680 or 685 nm laser	Alexa Fluor® 680, Cy®5.5, DyLight® 680, IRDye® 680LT	• The most photostable 680 nm dye • Suitable for labeling nucleic acids and small biomolecules • Highly water-soluble and pH-insensitive • Compatible with LI-COR Odyssey® System
CF™750	755	777	680 or 685 nm laser	Alexa Fluor® 750, Cy®7, DyLight® 750, APC-Alexa Fluor® 750, IRDye® 750	• Exceptionally bright and stable • Highly water soluble without bearing excessive charge • Better signal-to-noise ratio compared to APC-Alexa Fluor® 750 tandem dye with 633 nm excitation
CF™770	770	797	785 nm laser	DyLight® 800, IRDye® 800CW	• Exceptionally bright and stable • Highly water soluble without bearing excessive charge • Compatible with LI-COR Odyssey® System
CF™790	784	806	785 nm laser	Alexa Fluor® 790	• Exceptionally bright and stable • Highly water soluble without bearing excessive charge

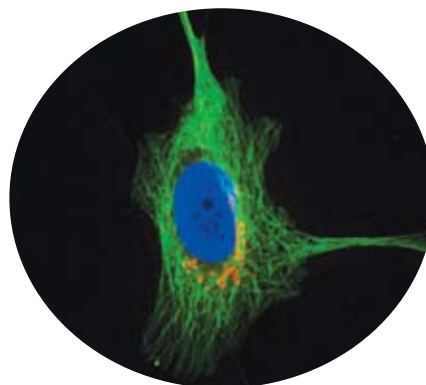
Alexa Fluor®, Cascade Blue®, Pacific Blue®, and Texas Red® are registered trademarks of Invitrogen; ATTO dyes are products of ATTO-TEC GmbH; BD Horizon™ is a trademark of BD Biosciences; Cy® is a registered trademark of GE Healthcare; DyLight® is a registered trademark of Thermo Fisher Scientific; eFluor® is a registered trademark of eBioscience; IRDye® is a registered trademark of LI-COR Bioscience; LightCycler® is a registered trademark of Roche Applied Science.



CF™ Dye Secondary Antibody Conjugates

Whole IgG and F(ab')₂ fragments

Figure 1. MCF-7 cell stained with mouse anti-tubulin and CF488A goat anti-mouse (microtubules, green) and rabbit anti-Golgi-2 and CF660C goat anti-rabbit (Golgi, red). Nuclei are stained blue with DAPI.



See pages 28-29 for highly cross adsorbed secondary antibodies for multi-color labeling.

Secondary antibodies, whole IgG (H+L), not cross-adsorbed

2 mg/mL in PBS pH 7.4 containing 50% glycerol, 2 mg/ml BSA (IgG-free and protease-free) and 0.05% sodium azide; also available in preservative-free lyophilized form

Available in 0.5 mL and 50 µL sizes; visit www.biotium.com for current pricing and availability

	CF™Dye/catalog number « Pour commander chez Ozyme, merci de rajouter BTM devant chaque référence »																		
Antibody	CF350	CF405S	CF405M	CF488A	CF514	CF532	CF543	CF555	CF568	CF594	CF633	CF640R	CF647	CF660C	CF660R	CF680	CF750	CF770	CF790
Chicken Anti-Goat	20364			20225			20333		20337	20226	20227								
Chicken Anti-Mouse	20331			20208			20334		20338	20221	20222								
Chicken Anti-Rabbit	20332			20209			20335		20339	20223	20224								
Goat Anti-Guinea Pig	20198			20017			20317	20036	20108	20118	20129	20085	20041						
Goat Anti-Mouse	20140	20080	20180	20010	20386	20365	20306	20030	20100	20110	20120	20197	20040	20050	20054		20070		20378
Goat Anti-Rabbit	20141	20082	20181	20012	20387	20366	20309	20033	20102	20112	20122	20202	20043	20053	20055		20073		
Goat Anti-Swine				20028			20324	20236	20091	20160	20138	20089	20286						
Rabbit Anti-Chicken				20079			20312			20164	20165								
Rabbit Anti-Goat				20021			20315	20031	20107	20117	20128	20090	20049			20068			
Rabbit Anti-Guinea Pig							20336									20243		20244	

Secondary antibodies, F(ab')₂ fragments

2 mg/mL in PBS pH 7.4 containing 50% glycerol, 2 mg/ml BSA (IgG-free and protease-free) and 0.05% sodium azide; also available in preservative-free lyophilized form

Unit size: 0.25 mL; visit www.biotium.com for current pricing and availability

	CF™Dye/catalog number « Pour commander chez Ozyme, merci de rajouter BTM devant chaque référence »																		
Antibody	CF350	CF405S	CF405M	CF488A	CF514	CF543	CF555	CF568	CF594	CF633	CF640R	CF647	CF660C	CF660R	CF680	CF680R	CF750	CF770	CF790
Goat Anti-Mouse	20145			20011		20329	20032	20109	20119	20130	20086	20042			20063				
Goat Anti-Rabbit	20146			20013		20330	20035	20099	20153	20131	20087	20045			20064				

Biotium regularly adds CF™ dye-conjugated secondary antibodies to our product line according to customer demand. Please check our website at www.biotium.com for updates, and contact us to request antibody/dye combinations above that do not have a catalog number. If you are looking for an antibody conjugate not listed in our catalog, please let us know. We may be able to add it as a new product, or perform a custom conjugation for you.

CF™ Dye Antibody Conjugates

Isotype specific; anti-biotin, -GFP and -epitope tag

Goat anti-mouse isotype-specific secondary antibody conjugates

Highly cross-adsorbed for multiple labeling (min X Bv, Hu, Rb)

2 mg/mL in PBS pH 7.4 containing 50% glycerol, 2 mg/ml BSA (IgG-free and protease-free) and 0.05% sodium azide; also available in preservative-free lyophilized form

Available in 0.25 mL and 50 uL sizes; visit www.biotium.com for current pricing and availability

	CF™Dye/catalog number « Pour commander chez Ozyme, merci de rajouter BTM devant chaque référence »																		
Isotype	CF350	CF405S	CF405M	CF488A	CF514	CF543	CF555	CF568	CF594	CF633	CF640R	CF647	CF660C	CF660R	CF680	CF680R	CF750	CF770	CF790
Goat Anti-Mouse IgG1	20245	20380		20246		20325	20247	20248	20249	20250	20251	20252			20253			20254	
Goat Anti-Mouse IgG2a	20255	20381		20256		20326	20257	20258	20259	20260	20261	20262			20263			20264	
Goat Anti-Mouse IgG2b	20265	20382		20266		20327	20267	20268	20269	20270	20271	20272			20273			20274	

Goat anti-human IgM (mu chain) antibody conjugates

No cross-reactivity with human IgA or IgG, less than 1% cross-reactivity with other human heavy and light chain isotypes

2 mg/mL in PBS pH 7.4 containing 50% glycerol, 2 mg/ml BSA (IgG-free and protease-free) and 0.05% sodium azide; also available in preservative-free lyophilized form

Available in 0.25 mL and 50 uL sizes; visit www.biotium.com for current pricing and availability

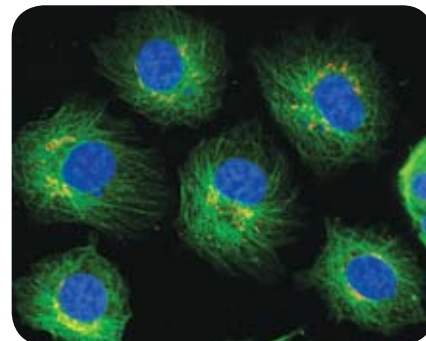
	CF™Dye/catalog number « Pour commander chez Ozyme, merci de rajouter BTM devant chaque référence »																		
Antibody	CF350	CF405S	CF405M	CF488A	CF514	CF543	CF555	CF568	CF594	CF633	CF640R	CF647	CF660C	CF660R	CF680	CF680R	CF750	CF770	CF790
Goat Anti-Human IgM (mu chain)				20347					20348		20349	20346				20384		20385	

Anti-GFP, anti-hapten, and anti-epitope tag antibody conjugates

In PBS pH 7.4 containing 50% glycerol, 2 mg/ml BSA (IgG-free and protease-free) and 0.05% sodium azide; also available in preservative-free lyophilized form

		CF™Dye/catalog number « Pour commander chez Ozyme, merci de rajouter BTM devant chaque référence »																		
Antibody	Unit Size	CF350	CF405S	CF405M	CF488A	CF514	CF543	CF555	CF568	CF594	CF633	CF640R	CF647	CF660C	CF660R	CF680	CF680R	CF750	CF770	CF790
Mouse Monoclonal Anti-GFP, 1 mg/mL	0.1 mL				20215					20216	20217	20218				20219			20220	
Mouse Monoclonal Anti-Biotin, 2 mg/mL	0.25 mL or 50 uL		20203		20204					20205	20206	20207							20367	
Mouse Monoclonal Anti-Fluorescein, 2 mg/mL	0.25 mL or 50 uL			20214	20210					20211	20212	20213								
Rabbit Anti-HA tag, 1 mg/mL	50 uL				20238					20239		20240								
Mouse Monoclonal Anti-6X His, 1 mg/mL	50 uL				20228					20229		20237				20359			20360	

Biotium regularly adds CF™ dye-conjugated secondary antibodies to our product line according to customer demand. Please check our website at www.biotium.com for updates, and contact us to request antibody/dye combinations above that do not have a catalog number. If you are looking for an antibody conjugate not listed in our catalog, please let us know. We may be able to add it as a new product, or perform a custom conjugation for you.



CF™ Dye Antibody Conjugates

Highly cross-adsorbed for multiple labeling

Secondary antibodies, whole IgG (H + L), highly cross-adsorbed for multiple-labeling

2 mg/mL in PBS pH 7.4 containing 50% glycerol, 2 mg/ml BSA (IgG-free and protease-free) and 0.05% sodium azide; also available in preservative-free lyophilized form

CF™350-CF™660R available in 0.5 mL and 50 µL sizes; CF™680-CF™790 available in 0.25 mL and 50 µL sizes; Visit www.biotium.com for current pricing and availability

		CF™Dye/catalog number « Pour commander chez Ozyme, merci de rajouter BTM devant chaque référence »																		
Antibody	Min X React	CF350	CF405S	CF405M	CF488A	CF514	CF543	CF555	CF568	CF594	CF633	CF640R	CF647	CF660C	CF660R	CF680	CF680R	CF750	CF770	CF790
Bovine Anti-Goat	Bv, Ch, GP, Hs, Hu, Ms, Rb, Rt, SHm				20293		20313		20294	20295	20296	20297								
Donkey Anti-Chicken	Bv, Gt, GP, Hs, Hu, Ms, Rb, Rt, Sh, SHm	20275			20166		20310			20167	20168									
Donkey Anti-Goat	Ch, GP, Hs, Hu, Ms, Rb, Rt, SHm	20142			20016		20314	20039	20106	20116	20127	20179	20048	20051		20060	20196	20362	20277	
Donkey Anti-Guinea Pig	Bv, Ch, Gt, Hs, Hu, Ms, Rb, Sh, SHm		20356	20376	20169		20316	20276	20377	20170	20171			20372		20241			20242	
Donkey Anti-Human	Bv, Ch, GP, Gt, Hs, Ms, Rb, Rt, Sh, SHm				20074		20318			20075	20076					20278			20279	
Donkey Anti-Mouse	Bv, Ch, Gt, GP, Hs, Hu, Rb, Sh, SHm	20350			20014		20305	20037	20105	20115	20124	20177	20046				20194			
Donkey Anti-Rabbit	Bv, Ch, Gt, GP, Hs, Hu, Ms, Sh, SHm	20351			20015		20308	20038	20098	20152	20125	20178	20047				20195	20298		
Donkey Anti-Rat	Bv, Ch, GP, Gt, Hs, Hu, Ms, Rb, Sh, SHm	20361			20027		20320		20092	20159	20137	20199								
Donkey Anti-Sheep	Ch, GP, Hs, Hu, Ms, Rb, Rt, SHm	20148			20024		20322	20234	20095	20156	20134	20083	20284			20062				

Bv: bovine; Ch: chicken; Gt: goat; GP: Guinea pig; Hs: horse; Hu: human; Ms: mouse; Rb: rabbit; Sh: sheep; SHm: Syrian hamster; Sw: swine; Rt: rat

Continued next page

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Figure 1. (Facing page) MCF-7 cells stained with mouse anti-tubulin and CF488A goat anti-mouse (microtubules, green) and rabbit anti-Golph-2 and CF660C goat anti-rabbit (Golgi, red). Nuclei are stained blue with DAPI.

Secondary antibodies, whole IgG (H + L) , highly cross-adsorbed for multiple-labeling
2 mg/mL in PBS pH 7.4 containing 50% glycerol, 2 mg/ml BSA (IgG-free and protease-free) and 0.05% sodium azide; also available in preservative-free lyophilized form
CF™350-CF™660R available in 0.5 mL and 50 uL sizes; CF™680-CF™790 available in 0.25 mL and 50 uL sizes; Visit www.biotium.com for current pricing and availability

		CF™Dye/catalog number « Pour commander chez Ozyme, merci de rajouter BTM devant chaque référence »																		
Antibody	Min X React	CF350	CF405S	CF405M	CF488A	CF514	CF543	CF555	CF568	CF594	CF633	CF640R	CF647	CF660C	CF660R	CF680	CF680R	CF750	CF770	CF790
Goat Anti-Chicken	Bv, Gt, GP, Hs, Hu, Ms, Rb, Rt, Sh, SHm			20375	20020		20311	20034	20104	20114	20126	20084	20044	20371						
Goat Anti-Human	Bv, Hs, Ms				20022		20319	20230	20097	20154	20132	20081	20280			20287			20288	
Goat Anti-Mouse	Bv, Hs, Hu, Rb, Sw	20143		20182	20018		20299	20231	20101	20111	20121	20175	20281	20052		20065	20192		20077	
Goat Anti-Mouse (min X Rat)	Bv, Ch, Gt, GP Hs Hu Rb Rt, Sh, SHm			20340	20302		20328		20301	20303	20341	20304		20368						
Goat Anti-Rabbit	Hu, Ms, Rt	20144		20373	20019		20300	20232	20103	20113	20123	20176	20282	20369		20067	20193		20078	
Goat Anti-Rat	Bv, Hs, Hu, Rb	20147		20374	20023		20321	20233	20096	20155	20133	20088	20283	20370		20069			20383	
Rabbit Anti-Human	Ms				20071					20072	20066									
Rabbit Anti-Mouse	Hu	20149			20026		20307	20235	20093	20158	20136	20200	20285		20061					
Rabbit Anti-Rat	Hu				20025				20094	20157	20135	20201								
Rabbit Anti-Sheep	Hu				20172		20323			20173	20174									

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