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Mix-n-Stain™ CF® Dye Antibody Labeling Kits

Label your IgG antibody with one of our superior CF® Dyes in as little as 15 minutes without a purification step. Labeling tolerates many common buffer components including BSA and ascites.



Product attributes

Product Description

Mix-n-Stain™ CF® Dye Antibody Labeling Kits allow you to label ≤ 5 ug up to 100 ug of your IgG antibody in as little as 15 minutes, with minimal hands-on time and no purification.

Note: This kit is for labeling IgG antibodies only. For labeling IgM antibodies, please see our [Mix-n-Stain™ CF® Dye IgM Antibody Labeling Kits](#).

Unrivalled Convenience

Mix-n-Stain™ labeling tolerates common antibody buffer formulations. An ultrafiltration centrifuge vial is provided to quickly remove interfering substances like glycerol, or to concentrate your antibody. With a slight modification in protocol, antibodies can be labeled in the presence of BSA, gelatin, or ascites fluid. Because CF® Dyes are highly water soluble, the presence of other proteins like BSA or gelatin in the labeling reaction has minimal effect on background fluorescence, because any labeled non-antibody proteins readily wash away during immunofluorescence staining.

Superior CF® Dyes

These kits feature a choice of 31 of Biotium's next-generation CF® Dyes, which were designed for advantages in brightness and photostability compared to other commercially available fluorescent dyes. Learn more about [CF® Dyes](#).

Choose the Right Labeling Kit for Your Antibody

Mix-n-Stain™ Antibody Labeling Kits are very simple to use (see the workflow overview above). But before you begin, you must check that your antibody meets the compatibility requirements for labeling, and choose the right labeling protocol. Download the updated and expanded [Product Protocol](#) for a labeling check list to help you select the right kit size and labeling protocol for your antibody. Also see our [Kit Compatibility and Protocol Selection Flowchart](#).

See the product table below for a quick reference of the maximum excitation and emission of each CF® Dye, or see our [CF® Dye Brochure](#) for more detailed dye information.

Other Labeling Kits

We now offer [Mix-n-Stain™ Maxi Antibody Labeling Kits](#) for labeling 1 mg of IgG antibody with CF® Dyes, as well as [Mix-n-Stain™ CF® Dye IgM Antibody Labeling Kits](#) and [Mix-n-Stain™ Nanobody Labeling Kits](#). Mix-n-Stain™ kits also are available for labeling antibodies with biotin, DNP, or DIG. See our full selection of [Mix-n-Stain™ Antibody Labeling Kits](#).

Mix-n-Stain™ CF® Dye Antibody Labeling Kits

Conjugation	Ex/Em	Size	Catalog No.	Dye Features
CF@350	347/448 nm	5-20 ug	92270	CF@350 Features
		20-50 ug	92250	
		50-100 ug	92230	
CF@405S	404/431 nm	5-20 ug	92271	CF@405S Features
		20-50 ug	92251	
		50-100 ug	92231	
CF@405M	408/452 nm	5-20 ug	92272	CF@405M Features
		20-50 ug	92252	
		50-100 ug	92232	
CF@405L	395/545 nm	5-20 ug	92303	CF@405L Features
		20-50 ug	92304	
		50-100 ug	92305	
		3x(5-20 ug)	92445	
CF@430	426/498 nm	5-20 ug	92316	CF@430 Features
		20-50 ug	92317	
		50-100 ug	92318	
CF@440	440/515 nm	5-20 ug	92319	CF@440 Features
		20-50 ug	92320	
		50-100 ug	92321	
CF@450	450/538 nm	5-20 ug	92322	CF@450 Features
		20-50 ug	92323	
		50-100 ug	92324	
CF@488A	490/515 nm	5-20 ug	92273	CF@488A Features
		20-50 ug	92253	
		50-100 ug	92233	
		3x(5-20 ug)	92446	
CF@514	516/548 nm	5-20 ug	92331	CF@514 Features
		20-50 ug	92332	
		50-100 ug	92333	
CF@532	527/558 nm	5-20 ug	92289	CF@532 Features
		20-50 ug	92290	
		50-100 ug	92291	
CF@543	541/560 nm	5-20 ug	92287	CF@543 Features
		20-50 ug	92267	
		50-100 ug	92247	
CF@555	555/565 nm	5-20 ug	92274	CF@555 Features
		20-50 ug	92254	
		50-100 ug	92234	
CF@568	562/583 nm	5-20 ug	92275	CF@568 Features
		20-50 ug	92255	
		50-100 ug	92235	
		3x(5-20 ug)	92447	
CF@570	568/591 nm	5-20 ug	92334	CF@570 Features
		20-50 ug	92335	
		50-100 ug	92336	
CF@583	583/606 nm	5-20 ug	92337	CF@583 Features
		20-50 ug	92338	
		50-100 ug	92339	
CF@583R	586/609 nm	5-20 ug	92455	CF@583R Features
		20-50 ug	92456	
		50-100 ug	92457	
CF@594	593/614 nm	5-20 ug	92276	CF@594 Features
		20-50 ug	92256	
		50-100 ug	92236	
		3x(5-20 ug)	92448	
CF@597R	597/619 nm	5-20 ug	92461	CF@597R Features
		20-50 ug	92462	
		50-100 ug	92463	
CF@633	630/650 nm	5-20 ug	92277	CF@633 Features
		20-50 ug	92257	
		50-100 ug	92237	
CF@640R	642/662 nm	5-20 ug	92278	CF@640R Features
		20-50 ug	92258	
		50-100 ug	92245	

Conjugation	Ex/Em	Size	Catalog No.	Dye Features
CF@647	650/665 nm	5-20 ug	92279	CF@647 Features
		20-50 ug	92259	
		50-100 ug	92238	
		3x(5-20 ug)	92449	
CF@660R	663/682 nm	5-20 ug	92281	CF@660R Features
		20-50 ug	92261	
		50-100 ug	92243	
CF@660C	667/685 nm	5-20 ug	92280	CF@660C Features
		20-50 ug	92260	
		50-100 ug	92239	
CF@680	681/698 nm	5-20 ug	92282	CF@680 Features
		20-50 ug	92262	
		50-100 ug	92240	
CF@680R	680/701 nm	5-20 ug	92283	CF@680R Features
		20-50 ug	92263	
		50-100 ug	92246	
CF@700	695/720 nm	5-20 ug	92425	CF@700 Features
		20-50 ug	92426	
		50-100 ug	92427	
CF@710	712/736 nm	5-20 ug	92579	CF@710 Features
		20-50 ug	92580	
		50-100 ug	92581	
CF@725	729/750 nm	5-20 ug	92582	CF@725 Features
		20-50 ug	92583	
		50-100 ug	92584	
CF@740	742/767 nm	5-20 ug	92576	CF@740 Features
		20-50 ug	92577	
		50-100 ug	92578	
CF@750	755/779 nm	5-20 ug	92284	CF@750 Features
		20-50 ug	92264	
		50-100 ug	92241	
CF@770	770/797 nm	5-20 ug	92285	CF@770 Features
		20-50 ug	92265	
		50-100 ug	92242	
CF@790	784/806 nm	5-20 ug	92288	CF@790 Features
		20-50 ug	92268	
		50-100 ug	92248	
CF@800	797/816 nm	5-20 ug	92428	CF@800 Features
		20-50 ug	92429	
		50-100 ug	92430	
CF@820	822/835 nm	5-20 ug	92431	CF@820 Features
		20-50 ug	92432	
		50-100 ug	92433	

* Download the [Product Protocol](#) for a labeling check list to help you select the right kit size and labeling protocol for your antibody.
 Also see our [Kit Compatibility and Protocol Selection Flowchart](#).

Antibody & Protein Labeling Kits

Product Name	Label Options	Labeling Scale	Labeling Time	Features
Mix-n-Stain™ CF@ Dye Antibody Labeling Kits	CF@ Dyes	≤5-20 ug IgG 20-50 ug IgG 50-100 ug IgG	~ 15 min.	<ul style="list-style-type: none"> • Rapid, simple labeling • No purification
Mix-n-Stain™ FITC Antibody Labeling Kits	FITC			<ul style="list-style-type: none"> • Tolerates BSA & other additives
Mix-n-Stain™ Cyanine Dye Antibody Labeling Kits	Cyanine 555 Cyanine 647			<ul style="list-style-type: none"> • Dyes for super-resolution, spectral flow, & NIR detection
Mix-n-Stain™ Biotin Antibody Labeling Kits	Biotin			
Mix-n-Stain™ Digoxigenin Antibody Labeling Kits	Digoxigenin (DIG)			
Mix-n-Stain™ DNP Antibody Labeling Kits	DNP			
Mix-n-Stain™ Maxi Antibody Labeling Kits	CF@ Dyes Cyanine Dyes	1 mg IgG	~ 30 min.	
Mix-n-Stain™ CF@ Dye IgM Antibody Labeling Kits	CF@ Dyes FITC	25 ug IgM 100 ug IgM	15-30 min.	<ul style="list-style-type: none"> • Rapid, simple labeling • No purification

Product Name	Label Options	Labeling Scale	Labeling Time	Features
Mix-n-Stain™ STORM CF® Dye Antibody Labeling Kits	CF® Dyes	50 ug IgG	~ 30 min.	<ul style="list-style-type: none"> Optimized to provide low 1-2.5 DOL No purification
Mix-n-Stain™ Nanobody Labeling Kits	CF® Dyes	5-20 ug Nanobody® 20-50 ug Nanobody®	~ 30 min.	<ul style="list-style-type: none"> Optimized for Nanobodies® Tolerates BSA & other additives
Mix-n-Stain™ Nanobody Thiol Labeling Kits	CF® Dyes		~ 2 hours	<ul style="list-style-type: none"> Optimized for Nanobodies® with single exposed cysteine residue
Mix-n-Stain™ Small Ligand Labeling Kits	CF® Dyes		~ 30 min.	<ul style="list-style-type: none"> Label SNAP®, CLIP™, HaloTag® & other small ligands Dye options for surface or intracellular targets
VivoBrite™ Rapid Antibody Labeling Kits for Small Animal In Vivo Imaging	Near-IR CF® Dyes	3 x 1 mg IgG	~ 2 hours	<ul style="list-style-type: none"> Dyes, buffers, & spin vials for labeling + purification Sterile syringes, filters and storage vials for in vivo use
CF® Dye & Biotin SE Protein Labeling Kits	CF® Dyes Biotin	3 x 1 mg protein	~ 2 hours	<ul style="list-style-type: none"> Dyes, buffers, & spin vials for labeling + purification

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References

Download a list of [CF® Dye and Mix-n-Stain™ references](#).

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