

ReadiLink Antibody Labeling Kit

Catalog #	Description	Catalog #	Description
135-1001	ReadiLink 350/440 Antibody Labeling Kit , includes dye, reaction buffer, and quench buffer for labeling 2 x 50 µg of antibodies	135-1007	ReadiLink 680/701 Antibody Labeling Kit
135-1002	ReadiLink 492/516 Antibody Labeling Kit	135-1008	ReadiLink 700/713 Antibody Labeling Kit
135-1003	ReadiLink 555/570 Antibody Labeling Kit	135-1009	ReadiLink 750/780 Antibody Labeling Kit
135-1004	ReadiLink 594/610 Antibody Labeling Kit	135-1010	ReadiLink 790/811 Antibody Labeling Kit
135-1005	ReadiLink 633/655 Antibody Labeling Kit	135-1011	ReadiLink 405/454 Antibody Labeling Kit
135-1006	ReadiLink 647/674 Antibody Labeling Kit	135-1012	ReadiLink 405/508 Antibody Labeling Kit
		135-1013	ReadiLink 405/537 Antibody Labeling Kit

For research purposes only.

Introduction

Bio-Rad's ReadiLink Antibody Labeling Kits offer easy fluorescence conjugations for microscale volumes (50–100 µg). Easily label antibodies in two simple steps without the need for a purification step (Figure 1).

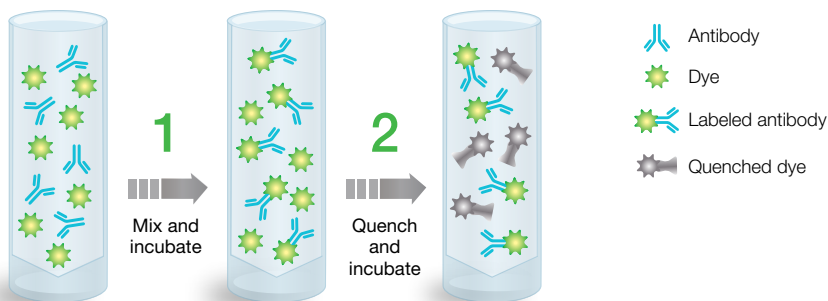


Fig 1. Efficient labeling of antibodies in two easy steps.

Each ReadiLink Dye is coupled to a reactive moiety (a succinimidyl ester). The reactive dye selectively binds to primary amines of proteins to form a stable carboxamide bond, ensuring no dissociation between the fluorophore and antibody. After conjugation and the addition of the quencher buffer, any unbound ReadiLink Dye will bind to the quencher and become nonfluorescent.

The ReadiLink Antibody Labeling Kit provides all the essential components for performing two conjugation reactions (2 x 50 µg protein). Each kit can be used to label monoclonal or polyclonal antibodies, or other proteins (>10 kD).

Kit Contents and Storage

Follow the guidelines in Table 1 for storing kit components.

Table 1. Kit components and storage.

Kit Component	Quantity	Storage, °C
ReadiLink Labeling Dye (powder)	2 vials (Note: Use one vial to label 50 µg of antibodies)	-20
Reaction Buffer	1 vial (20 µl)	-20
Quench Buffer	1 vial (20 µl)	-20

Directions for Labeling 50 µg of Antibodies

Important: Thaw all kit components prior to use.

Note: The antibody of interest must be suspended in phosphate buffered saline (PBS), pH 7.2–7.4, or be dialyzed against PBS prior to conjugation to remove free amines or ammonium salts in the solution.

Note: The optimal antibody conjugation is 1 mg/ml. A conjugation performed at a different conjugation concentration may cause suboptimal labeling.

1. Suspend the antibody of interest in PBS to create a 1 mg/ml concentration.
2. Add 5 µl reaction buffer to 50 µl antibody solution from step 1.
3. Mix well by pipetting up and down a few times.
4. Add the entire volume (55 µl) to **one** vial of labeling dye and mix by pipetting.
5. Incubate for 60 min at room temperature.
6. Add 5 µl quencher to the reaction mixture.
7. Incubate for 10 min at room temperature.
8. Antibodies are now labeled and ready to use.

ReadiLink Antibody Labeling Kits with Excitation and Emission Wavelengths

Use Table 2 to select the appropriate ReadiLink Kit for your conjugation.

Table 2. Excitation and emission specifications.

Catalog Number	Labeling Dye Description	Maximum Excitation, nm	Maximum Emission, nm
135-1001	ReadiLink 350/440	350	440
135-1002	ReadiLink 492/516	492	516
135-1003	ReadiLink 555/570	555	570
135-1004	ReadiLink 594/610	594	610
135-1005	ReadiLink 633/655	633	655
135-1006	ReadiLink 647/674	647	674
135-1007	ReadiLink 680/701	680	701
135-1008	ReadiLink 700/713	700	713
135-1009	ReadiLink 750/780	750	780
135-1010	ReadiLink 790/811	790	811
135-1011	ReadiLink 405/454	403	454
135-1012	ReadiLink 405/508	414	508
135-1013	ReadiLink 405/537	405	537

Visit bio-rad.com/web/readilink for more information.

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