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Invitrogen™

Fluorescent Protein Labeling Kits

Catalog number: A20173

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Ready to use in just 90 minutes, our protein labeling kits include an easy-to-use, pre-packed spin column for rapid dye removal and typical recovery greater than 85%. Each kit contains enough reagent for 3–5 protein conjugation reactions. Our kits provide better results due to lower background fluorescence, less nonspecific binding, and easier workflows for protein conjugation with 16 different fluorophores.

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Catalog Number A20173

Unit Size 1 kit

Description Alexa Fluor™ 647 Protein Labeling Kit

Price (USD) Price: 624.00
Your Price: [Sign In](#) ⓘ

Availability ⓘ **In stock**

ThermoFisher SCIENTIFIC		Save to list		Add to cart	
Catalog Number A10170 Unit Size1 kit DescriptionAlexa Fluor™ 350 Protein Labeling Kit Price (USD)Price: 614.00 Your Price: Sign In ⓘ Availability ⓘ In stock ✓ Full specifications ▾ Quantity		Save to list		Add to cart	
Catalog Number A10235 Unit Size1 kit DescriptionAlexa Fluor™ 488 Protein Labeling Kit Price (USD)Price: 624.00 Your Price: Sign In ⓘ Availability ⓘ In stock ✓ Full specifications ▾ Quantity		Save to list		Add to cart	
Catalog Number A10236 also known as A-10236 ⓘ Unit Size1 kit DescriptionAlexa Fluor™ 532 Protein Labeling Kit Price (USD)Price: 576.00 Your Price: Sign In ⓘ Availability ⓘ In stock ✓ Full specifications ▾ Quantity		Save to list		Add to cart	
Catalog Number A10237 Unit Size1 kit DescriptionAlexa Fluor™ 546 Protein Labeling Kit Price (USD)Price: 616.00		Save to list		Add to cart	



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Full specifications ▾

Quantity

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Catalog Number A20174

Unit Size 1 kit

Description Alexa Fluor™ 555 Protein Labeling Kit

Price (USD) Price: 614.00
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Availability ⓘ In stock

☒

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Quantity

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Catalog Number A10238

Unit Size 1 kit

Description Alexa Fluor™ 568 Protein Labeling Kit

Price (USD) Price: 622.00
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Availability ⓘ In stock

☒

Full specifications ▾

Quantity

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Catalog Number A10239

Unit Size 1 kit

Description Alexa Fluor™ 594 Protein Labeling Kit

Price (USD) Price: 614.00
Your Price: [Sign In](#) ⓘ

Availability ⓘ Estimated availability date
06-Feb-2023

☒

Full specifications ▾

Quantity

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Catalog Number A20170

Unit Size 1 kit

ThermoFisher
SCIENTIFIC

Availability ⓘ In stock

✓

Full specifications ▾

Quantity

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Catalog Number [A20171](#)

Unit Size

1 kit

Description

Alexa Fluor™ 660 Protein Labeling Kit

Price (USD)

Price: 614.00
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Availability ⓘ

In stock

✓

Full specifications ▾

Quantity

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Dana-Farber EX1055
Dana-Farber v. BMS, IPR2023-00501
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ThermoFisher

SCIENTIFIC



- Labeled proteins ready to use in 90 min. (~15 min. hands-on time)
- Rapidly purify proteins by quickly removing unbound dye using pre-packed spin columns for >85% recovery
- Includes detailed instructions for determining degree of labeling (DOL)

Each protein labeling kit contains everything you need to perform 3-5 separate labeling reactions and purify the resulting conjugates. The reactive dye has either a succinimidyl ester (SE) or a tetrafluorophenyl (TFP) ester moiety that reacts efficiently with primary amines of proteins to form stable dye-protein conjugates. Each of the vials of reactive dye provided in the kit is sufficient for labeling 1 mg of a variety of purified proteins, including growth factors, cytokines, nanobodies, enzymes, cell-adhesion molecules, and antibodies.

Direct labeling with fluorophores allows multiple primary antibodies of the same isotype (derived from the same species) to be used in the same experiment. Stabilizing proteins such as BSA should be removed from the sample before labeling.

The different protein labeling kits

- **Blue-fluorescent Alexa Fluor 350**—excitation and emission maxima of 346/442 nm
- **Green-fluorescent Alexa Fluor 488**—excitation and emission maxima of 494/519 nm; excited using a 488 nm argon laser line and detected under standard FITC/Cy2 filters
- **Yellow-fluorescent Alexa Fluor 532**—excitation and emission maxima of 530/554 nm; excited using a 532 nm Nd:YAG laser line and detected under standard Rhodamine 6G filters
- **Orange-fluorescent Alexa Fluor 546**—excitation and emission maxima of 554/570 nm; excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters
- **Orange-fluorescent Alexa Fluor 555**—excitation and emission maxima of 555/565 nm; excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters
- **Orange-red-fluorescent Alexa Fluor 568**—excitation and emission maxima of 577/603 nm; excited using a 568 nm Kr laser line and detected under standard Rhodamine Red/Cy3.5 filters
- **Red-fluorescent Alexa Fluor 594**—excitation and emission maxima of 590/617 nm; excited using a 594 nm Kr or He-Ne laser line and detected under standard Texas Red filters
- **Far-red-fluorescent Alexa Fluor 633**—excitation and emission maxima of 632/647 nm
- **Far-red-fluorescent Alexa Fluor 647**—excitation and emission maxima of 650/668 nm; excited using a 633 or 635 nm Kr or He-Ne laser line and detected under standard APC/Cy5 filters.
- **Far-red-fluorescent Alexa Fluor 660**—excitation and emission maxima of 663/690 nm
- **Near-IR-fluorescent Alexa Fluor 680**—excitation and emission maxima of 680/700 nm

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- **Pacific Blue**—a violet light excitable dye with an excitation and emission maxima of 410/455 nm
- **Texas Red-X**—excitation and emission maxima of 595/615 nm
- **DSB-X Biotin**—Conjugates can be reversibly bound to biotin-binding proteins such as streptavidin or avidin. The concentration (mg/mL) of the DSB-X Biotin-labeled antibody preparation can be determined by measuring the absorbance of the conjugate at 280 nm. The absorbance of the conjugate is 1.0 or 1.4 when measured in solution in a cuvette with a 1-cm pathlength. DSB-X Biotin does not absorb significantly at 280 nm.

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For labeling smaller quantities (~100 µg), we recommend our smaller kits. Please review the protein labeling manual for more information on labeling efficiency, optimal weights, and degree of labeling for each dye.

Alexa Fluor™ 488 Protein Labeling Kit

Catalog number: A10235
For Research Use Only. Not for use in diagnostic procedures.

624.00 / 1 kit

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Store in refrigerator 2°C to 8°C and protect from light.

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User Guide: Protein Labeling Kits (For Alexa Fluor, Pacific Blue, Fluorescein-EX, and Oregon Green 488)



Novel Solid-phase Antibody Labeling Using APEX Antibody Labeling Kits





DSB-X Biotin Protein Labeling Kit



Important customer notification - purification resin in the Antibody and the Protein Labeling kits



User Guide: Texas Red-X Protein Labeling Kit

Frequently asked questions (FAQs)

- What formulation of antibody should I use for conjugation for small animal in vivo imaging?

[Answer](#) 
- What is degree of labeling (DOL)?

[Answer](#) 

Citations & References



Citations & References	Abstract
Immune complex relay by subcapsular sinus macrophages and noncognate B cells drives antibody affinity maturation. Authors: Phan TG, Green JA, Gray EE, Xu Y, Cyster JG, Journal: Nat Immunol PubMed ID: 19503106	Subcapsular sinus (SCS) macrophages capture antigens from lymph and present them intact for B cell encounter and follicular delivery. However, the properties of SCS macrophages are poorly defined. Here we show SCS macrophage development depended on lymphotoxin-alpha1beta2, and the cells had low lysosomal enzyme expression and retained opsonized antigens on their surface. Intravital imaging revealed immu...
Modulation of antigen presentation by autoreactive B cell clones specific for GAD65 from a type I diabetic patient. Authors: Banga JP, Moore JK, Duhindan N, Madec AM, van Ender PM, Orgiazzi J, Endl J Journal: Clin Exp Immunol PubMed ID: 14678267	We used a GAD65-specific human B-T cell line cognate system in vitro to investigate the modulation of GAD65 presentation by autoantibody, assessed in a proliferation assay. Generally, if the T cell determinant overlaps or resides within the antibody epitope, effects of presentation are blunted while if they are distant can lead to potent presentation. For three different autoreactive B-T cell line cognate pairs, the modulation of GAD65...
Synergistic and differential modulation of immune responses by Hsp60 and lipopolysaccharide. Authors: Osterloh A, Kalinke U, Weiss S, Fleischer B, Breloer M Journal: J Biol Chem PubMed ID: 17164250	



	immune response. In this study we show that Hsp60 mediates immune stimulation by different mechanisms, dependent and independent of lipopolysaccharide (LPS). We have demonstrated earlier that both, Hsp60 and LPS, increase antigen-specific interferon (IFN) gamma release in T cells. Here we show that in contrast to LPS Hsp60...
Antibody to Langerin/CD207 localizes large numbers of CD8alpha+ dendritic cells to the marginal zone of mouse spleen. ↗ Authors: Idoyaga J, Suda N, Suda K, Park CG, Steinman RM, Journal: Proc Natl Acad Sci U S A PubMed ID: 19168629	Dendritic cells (DCs) are strategically positioned to take up antigens and initiate adaptive immunity. One DC subset expresses CD8alphaalpha in mice and is specialized to capture dying cells and process antigens for MHC class I
Fluorescence quantification for surface plasmon excitation. ↗ Authors: Feller BE, Kellis JT, Cascão-Pereira LG, Knoll W, Robertson CR, Frank CW, Journal: Langmuir PubMed ID: 18844383	Surface plasmon resonance and surface plasmon fluorescence spectroscopy in combination have the potential to distinguish multicomponent surface processes. However, surface intensity variations from resonance angle shifts lead to a nonlinear response in the fluorescence intensity. We report a method to account for surface intensity variations using the experimentally measured relationship...

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Antibody Conjugate
Purification Kit, 20-50 μ...

Catalog number: A33087



243.00 / 3 purifications

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