

## Labeled Donkey Anti–Mouse IgG Antibodies

**Table 1** Contents and storage

Material	Amount	Concentration	Storage	Stability
Fluorophore-labeled donkey anti–mouse IgG (H+L) antibody	0.5 mL	2 mg/mL solution in 0.1 M sodium phosphate, 0.1 M NaCl, pH 7.5, 5 mM sodium azide	<ul style="list-style-type: none"> <li>• 2–8°C</li> <li>• Protect from light</li> </ul>	When stored undiluted as directed, antibodies are stable for at least 3 months.*
* For longer storage, divide the solution into single-use aliquots and freeze at $\leq -20^{\circ}\text{C}$ . Frozen aliquots are stable for at least 6 months. AVOID REPEATED FREEZING AND THAWING.				
<b>Degree of labeling:</b> The degree of labeling for each conjugate is typically 2–8 fluorophore molecules per IgG molecule; the exact degree of labeling is indicated on the certificate of analysis for each product lot.				
<b>Approximate fluorescence excitation/emission maxima:</b> See Table 2, page 2.				

### Introduction

Fluorescent donkey anti–mouse IgG antibodies are prepared from affinity-purified antibodies that react with IgG heavy chains and all classes of immunoglobulin light chains from mouse. The Alexa Fluor® dyes to which these antibodies are conjugated provide for extraordinarily bright antibody conjugates. The donkey anti–mouse IgG antibodies show minimum cross-reactivity to bovine, chicken, goat, guinea pig, hamster, horse, human, rabbit, rat, and sheep serum proteins. The approximate excitation and fluorescence emission maxima for each of the conjugates are shown in Table 2, page 2. For Qdot® nanocrystal conjugates of donkey anti–mouse IgG antibodies, see Table 3, page 2.

In addition to the secondary antibodies described in this manual, Molecular Probes offers fluorescent conjugates of many other species-specific anti-IgG antibodies, as well as conjugates of avidin, streptavidin, NeutrAvidin® biotin-binding protein, protein A, and protein G. For more information about these products, refer to our website at [www.lifetechnologies.com](http://www.lifetechnologies.com) or contact Technical Support.

At the time of preparation, the products are certified to be free of unconjugated dyes and are tested in an immunofluorescence experiment to ensure low non-specific staining.

**Table 2** Labeled donkey anti–mouse IgG antibodies\*

Catalog no.	Label	Ex †	Em †
A10035	Alexa Fluor® 350	346	442
A21202	Alexa Fluor® 488	495	519
A10036	Alexa Fluor® 546	556	573
A31570	Alexa Fluor® 555	555	565
A10037	Alexa Fluor® 568	578	603
A21203	Alexa Fluor® 594	590	617
A31571	Alexa Fluor® 647‡	650	668
A10038	Alexa Fluor® 680‡	663	690
A11371	Alexa Fluor® 790‡	784	814

\* Minimum cross reactivity to bovine, chicken, goat, guinea pig, hamster, horse, human, rabbit, rat, and sheep serum proteins. † Approximate excitation (Ex) and fluorescence emission (Em) maxima for conjugates, in nm. ‡ Human vision is insensitive to light beyond ~650 nm, and therefore it is not possible to view the fluorescence of these dyes by looking through a conventional fluorescence microscope.

**Table 3** Qdot® conjugates of donkey anti–mouse IgG antibodies

Catalog no.	Label	Ex *	Em *
Q22073	Qdot® 525	<525	525
Q22076	Qdot® 565	<565	565
Q22079	Qdot® 585	<585	585
Q22082	Qdot® 605	<605	605
Q22085	Qdot® 625	<625	625
Q22088	Qdot® 655	<655	655

\* Qdots are excitable (Ex, in nm) at any wavelength below their emission maxima (Em, in nm). For most practical applications, they should be excited at wavelengths below 450 nm. For additional information, refer to the product manual "Qdot® Streptavidin Conjugates", available at [www.lifetechnologies.com/manuals](http://www.lifetechnologies.com/manuals).

## Guidelines for Use

We recommend centrifuging the protein conjugate solution briefly in a microcentrifuge before use and add only the supernatant to the experiment. This step eliminates any protein aggregates that may have formed during storage, thereby reducing non-specific background staining.

Because staining protocols vary with application, the appropriate dilution of antibody should be determined empirically. For fluorophore-labeled antibodies, a final concentration of 1–10 µg/mL should be satisfactory for most immunohistochemical applications.<sup>1</sup>

Alexa Fluor® 680 and Alexa Fluor® 790 IgG conjugates have been validated for fluorescent western detection and are compatible with most standard fluorescent western instrumentation. They are amenable to standard western blot fluorescent detection protocols and can be used in single or multicolored experiments. For more information, refer to the technical note: Multicolored western detection using Alexa Fluor® secondary antibodies, available for downloading at [www.lifetechnologies.com](http://www.lifetechnologies.com) or by contacting Technical Support.

## Reference

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1. *Short Protocols in Molecular Biology, 2<sup>nd</sup> Edition*, F.M. Ausubel et al., Eds., John Wiley and Sons (1992) pp. 14-24–14-30.

## Product List

Current prices may be obtained from our website or from our Customer Service Department.

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Cat. no	Product Name	Unit Size
A10035	Alexa Fluor® 350 donkey anti-mouse IgG (H+L) conjugate *2 mg/mL*	0.5 mL
A21202	Alexa Fluor® 488 donkey anti-mouse IgG (H+L) conjugate *2 mg/mL*	0.5 mL
A10036	Alexa Fluor® 546 donkey anti-mouse IgG (H+L) conjugate *2 mg/mL*	0.5 mL
A31570	Alexa Fluor® 555 donkey anti-mouse IgG (H+L) conjugate *2 mg/mL*	0.5 mL
A10037	Alexa Fluor® 568 donkey anti-mouse IgG (H+L) conjugate *2 mg/mL*	0.5 mL
A21203	Alexa Fluor® 594 donkey anti-mouse IgG (H+L) conjugate *2 mg/mL*	0.5 mL
A31571	Alexa Fluor® 647 donkey anti-mouse IgG (H+L) conjugate *2 mg/mL*	0.5 mL
A10038	Alexa Fluor® 680 donkey anti-mouse IgG (H+L) conjugate *2 mg/mL*	0.5 mL
A11371	Alexa Fluor® 790 donkey anti-mouse IgG (H+L) conjugate *2 mg/mL*	0.5 mL

Visit [www.lifetechnologies.com/antibody](http://www.lifetechnologies.com/antibody) for details on antibody research reagents and tools..

# Purchaser Notification

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These high-quality reagents and materials must be used by, or directly under the supervision of, a technically qualified individual experienced in handling potentially hazardous chemicals. Read the Safety Data Sheet provided for each product; other regulatory considerations may apply.

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