

## Labeled Donkey Anti–Mouse IgG Antibodies

**Table 1.** Contents and storage information.

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>• 2–6°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.

**Degree of labelings:** 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 product label.

**Approximate fluorescence excitation/emission maxima:** See Table 2.

## Introduction

Molecular Probes 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.

In addition to the secondary antibodies described in this manual, Molecular Probes prepares 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. Please consult our website at [probes.invitrogen.com](http://probes.invitrogen.com) or contact our Technical Service Department for more information about these products.

At the time of preparation, the products are certified to be free of unconjugated dyes and are tested in a cytological experiment to ensure low nonspecific staining.

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

Catalog #	Label	Ex †	Em †
A21202	Alexa Fluor® 488	495	519
A31570	Alexa Fluor® 555	555	565
A21203	Alexa Fluor® 594	590	617
A31571	Alexa Fluor® 647	650	668

\* 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.

## Guidelines for Use

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It is a good practice to centrifuge the protein conjugate solution briefly in a microcentrifuge before use; only the supernatant should then be added to the experiment. This step will eliminate any protein aggregates that may have formed during storage, thereby reducing nonspecific 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>

## 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 #	Product Name	Unit Size
A21202	Alexa Fluor® 488 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
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

## Contact Information

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Further information on Molecular Probes products, including product bibliographies, is available from your local distributor or directly from Molecular Probes. Customers in Europe, Africa and the Middle East should contact our office in Paisley, United Kingdom. All others should contact our Technical Service Department in Eugene, Oregon.

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