

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"> • 2–6°C • Protect from light 	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

Fluorescent donkey anti–mouse IgG antibodies from Invitrogen 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, Invitrogen 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. For more information about these products, visit probes.invitrogen.com or contact Technical Support.

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 †
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

* 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

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 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.¹

Reference

1. *Short Protocols in Molecular Biology, 2nd 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.**

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

Visit www.invitrogen.com/antibody for details on antibody research reagents and tools..

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