

## Labeled Donkey Anti-Goat IgG Antibodies

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

Material	Amount	Concentration	Storage	Stability
Labeled donkey anti-goat IgG (H +L) antibodies	0.5 mL	2 mg/mL solution in 0.1 M sodium phosphate, 0.1 M NaCl, pH 7.5, containing 5 mM sodium azide	<ul style="list-style-type: none"> <li>• 2–6°C *</li> <li>• Protect from light</li> </ul>	When stored as directed, products 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 Labeling:** Typically 2–8<sup>°C</sup> fluorophore or biotin molecules per IgG molecule; the exact degree of labeling is indicated on the product label.

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

### Introduction

Molecular Probes donkey anti-goat IgG antibody conjugates (Table 2) are prepared from affinity-purified antibodies that react with IgG heavy chains and all classes of immunoglobulin light chains from goat. To minimize cross-reactivity, the donkey anti-goat IgG antibodies have been adsorbed against rabbit, mouse, rat, and human IgG prior to labeling. These antibodies have been conjugated to either DSB-X™ biotin, a reversible form of biotin, or one of our excellent Alexa Fluor® dyes. The approximate fluorescence excitation and emission maxima for each of the conjugates are shown in Table 2.

In addition to the secondary antibodies described in this instruction 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 label and are tested in a cytological experiment to ensure low nonspecific staining.

**Table 2.** Molecular Probes labeled donkey anti-goat IgG antibodies.\*

Catalog #	Label	Ex (nm) †	Em (nm) †
D20698	DSB-X™ biotin	NA	NA
A21081	Alexa Fluor® 350	346	442
A11055	Alexa Fluor® 488	495	519
A11056	Alexa Fluor® 546	556	573
A21432	Alexa Fluor® 555	555	565
A11057	Alexa Fluor® 568	578	603
A11058	Alexa Fluor® 594	590	617
A21082	Alexa Fluor® 633	632	647
A21447	Alexa Fluor® 647	650	668
A21083	Alexa Fluor® 660	663	690
A21084	Alexa Fluor® 680	679	702

\* These donkey anti-goat IgG antibodies have been adsorbed against rabbit, mouse, rat, and human IgG to minimize crossreactivity. † Approximate fluorescence excitation (Ex) and emission (Em) maxima, in nm.

## Guidelines for Use

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 the labeled antibodies, a final concentration of 1–10 µg/mL should be satisfactory for most immunohistochemical applications.<sup>1</sup>

## Reference

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.

Cat #	Product Name	Unit Size
A21081	Alexa Fluor® 350 donkey anti-goat IgG (H+L) *2 mg/mL*	0.5 mL
A11055	Alexa Fluor® 488 donkey anti-goat IgG (H+L) *2 mg/mL*	0.5 mL
A11056	Alexa Fluor® 546 donkey anti-goat IgG (H+L) *2 mg/mL*	0.5 mL
A21432	Alexa Fluor® 555 donkey anti-goat IgG (H+L) *2 mg/mL*	0.5 mL
A11057	Alexa Fluor® 568 donkey anti-goat IgG (H+L) *2 mg/mL*	0.5 mL
A11058	Alexa Fluor® 594 donkey anti-goat IgG (H+L) *2 mg/mL*	0.5 mL
A21082	Alexa Fluor® 633 donkey anti-goat IgG (H+L) *2 mg/mL*	0.5 mL
A21447	Alexa Fluor® 647 donkey anti-goat IgG (H+L) *2 mg/mL*	0.5 mL
A21083	Alexa Fluor® 660 donkey anti-goat IgG (H+L) *2 mg/mL*	0.5 mL
A21084	Alexa Fluor® 680 donkey anti-goat IgG (H+L) *2 mg/mL*	0.5 mL
D20698	DSB-X™ biotin donkey anti-goat IgG (H+L) *2 mg/mL*	0.5 mL

## Contact Information

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