

Labeled Goat Anti-Chicken IgG Antibodies

Table 1. Spectral characteristics and storage information

Material		Amount	Ex/Em (nm)*	Storage	Stability
Catalog no.	Label				
D20701	DSB-X™ biotin	0.5 mL	NA	<ul style="list-style-type: none"> • 4°C, undiluted • Protect from light • Avoid repeated freezing and thawing 	<p>When stored as directed, the solutions should be stable for at least 3 months.</p> <p>For longer storage, divide the solution into single-use aliquots and freeze at -20°C.</p>
A11039	Alexa Fluor® 488	0.5 mL	495/519		
A11040	Alexa Fluor® 546	0.5 mL	556/575		
A21437	Alexa Fluor® 555	0.5 mL	555/565		
A11041	Alexa Fluor® 568	0.5 mL	578/603		
A11042	Alexa Fluor® 594	0.5 mL	590/617		
A21103	Alexa Fluor® 633†	0.5 mL	632/647		
A21449	Alexa Fluor® 647†	0.5 mL	650/668		
A21104	Alexa Fluor® 660†	0.5 mL	663/690		

*Approximate fluorescence excitation/emission maxima.

†Human vision is insensitive to light beyond ~650 nm; therefore, it is not possible to view the fluorescence of these dyes by looking through a conventional fluorescence microscope..

Introduction

Molecular Probes anti-chicken IgG antibody conjugates are prepared from affinity-purified anti-chicken IgG (H+L) antibodies and react with IgG heavy chains and all classes of immunoglobulin light chains from chicken. 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/emission maxima for each of the conjugates are shown in Table 1.

Molecular Probes offers a broad selection of secondary immunoreagents for use in fluorescence microscopy and flow cytometry. In addition to the secondary antibodies described in this product information sheet, we prepare conjugates of many other species-specific anti-IgG antibodies, as well as conjugates of avidin, streptavidin, NeutrAvidin™ biotin-binding protein, and protein A. For more information about these products, refer to our website (www.lifetechnologies.com) or contact our Technical Assistance Department.

Note: Chicken IgG antibodies are commonly referred to as "IgY", the "Y" denoting "yolk". Our goat anti-chicken secondary antibodies were raised in goat (so referred to as "IgG") that will react with IgY, an antibody raised in chickens.

Before You Begin

Fluorescence spectral characteristics

The excitation and emission maxima are shown in Table 1.

Contents

The labeled goat anti-chicken IgG (H+L) antibodies are supplied in unit sizes of 0.5 mL as 2 mg/mL solutions in 0.1 M sodium phosphate, 0.1 M NaCl, pH 7.5, containing 5 mM of sodium azide.

The degree of labeling for each conjugate is typically 2–8 fluorophore or biotin molecules per IgG molecule; the exact degree of labeling is indicated on the product label. 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.

Experimental Protocol

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 eliminates any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining.

Because staining protocols vary with the type of 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.¹

References

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
A11039	Alexa Fluor® 488 goat anti-chicken IgG (H+L) *2 mg/mL*	0.5 mL
A11040	Alexa Fluor® 546 goat anti-chicken IgG (H+L) *2 mg/mL*	0.5 mL
A21437	Alexa Fluor® 555 goat anti-chicken IgG (H+L) *2 mg/mL*	0.5 mL
A11041	Alexa Fluor® 568 goat anti-chicken IgG (H+L) *2 mg/mL*	0.5 mL
A11042	Alexa Fluor® 594 goat anti-chicken IgG (H+L) *2 mg/mL*	0.5 mL
A21103	Alexa Fluor® 633 goat anti-chicken IgG (H+L) *2 mg/mL*	0.5 mL
A21449	Alexa Fluor® 647 goat anti-chicken IgG (H+L) *2 mg/mL*	0.5 mL
A21104	Alexa Fluor® 660 goat anti-chicken IgG (H+L) *2 mg/mL*	0.5 mL
D20701	DSB-X™ biotin goat anti-chicken IgG (H+L) *2 mg/mL*	0.5 mL

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Additional international offices are listed at
www.lifetechnologies.com

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.

Obtaining Support

For the latest services and support information for all locations, go to www.lifetechnologies.com.

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- Access worldwide telephone and fax numbers to contact Technical Support and Sales facilities
- Search through frequently asked questions (FAQs)
- Submit a question directly to Technical Support (techsupport@lifetech.com)
- Search for user documents, SDSs, vector maps and sequences, application notes, formulations, handbooks, certificates of analysis, citations, and other product support documents
- Obtain information about customer training
- Download software updates and patches

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