

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"> • 2–6°C * • Protect from light 	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°C 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 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.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 #	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

Molecular Probes, Inc.
29851 Willow Creek Road
Eugene, OR 97402
Phone: (541) 465-8300
Fax: (541) 335-0504

Customer Service:
6:00 am to 4:30 pm (Pacific Time)
Phone: (541) 335-0338
Fax: (541) 335-0305
probesorder@invitrogen.com

Toll-Free Ordering for USA:
Order Phone: (800) 438-2209
Order Fax: (800) 438-0228

Technical Service:
8:00 am to 4:00 pm (Pacific Time)
Phone: (541) 335-0353
Toll-Free (800) 438-2209
Fax: (541) 335-0238
probetech@invitrogen.com

Invitrogen European Headquarters
Invitrogen, Ltd.
3 Fountain Drive
Inchinnan Business Park
Paisley PA4 9RF, UK
Phone: +44 (0) 141 814 6100
Fax: +44 (0) 141 814 6260
Email: euroinfo@invitrogen.com
Technical Services: eurotech@invitrogen.com

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 Assistance Department in Eugene, Oregon.

Molecular Probes products are high-quality reagents and materials intended for research purposes only. These products must be used by, or directly under the supervision of, a technically qualified individual experienced in handling potentially hazardous chemicals. Please read the Material Safety Data Sheet provided for each product; other regulatory considerations may apply.

Limited Use Label License No. 223: Labeling and Detection Technology

The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. The buyer may transfer information or materials made through the use of this product to a scientific collaborator, provided that such transfer is not for any Commercial Purpose, and that such collaborator agrees in writing (a) to not transfer such materials to any third party, and (b) to use such transferred materials and/or information solely for research and not for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. Invitrogen Corporation will not assert a claim against the buyer of infringement of the above patents based upon the manufacture, use or sale of a therapeutic, clinical diagnostic, vaccine or prophylactic product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. If the purchaser is not willing to accept the limitations of this limited use statement, Invitrogen is willing to accept return of the product with a full refund. For information on purchasing a license to this product for purposes other than research, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Several Molecular Probes products and product applications are covered by U.S. and foreign patents and patents pending. All names containing the designation ® are registered with the U.S. Patent and Trademark Office.

Copyright 2006, Molecular Probes, Inc. All rights reserved. This information is subject to change without notice.