

Labeled Chicken Anti–Mouse IgG Antibodies

Quick Facts

Storage upon receipt:

- 4°C or –20°C in aliquots
- Avoid freeze-thaw cycles
- Protect from light

Abs/Em: See Table 1

Working concentration: 1–10 µg/mL

Table 1. Molecular Probes' labeled chicken anti–mouse IgG antibodies.*

Catalog #	Label	Abs †	Em †
A-21200	Alexa Fluor 488	495	519
A-21201	Alexa Fluor 594	590	617
A-21463	Alexa Fluor 647 ‡	650	668

* Cross-adsorbed against human and rabbit IgG. † Approximate absorption (Abs) and fluorescence emission (Em) maxima in nm. ‡ Human vision is insensitive to light beyond ~650 nm, and therefore it is not possible to view the fluorescence of the Alexa Fluor 647 dye by looking through a conventional fluorescence microscope.

Introduction

Molecular Probes now offers chicken anti–mouse antibodies. Chicken anti–mouse antibodies react with IgG heavy chains and all classes of immunoglobulin light chains from mouse. Chicken secondary antibodies have gained popularity because they demonstrate a lower level of nonspecific binding. Chicken antibodies lack a classic “Fc” domain and will not bind to protein A or protein G, nor will they bind to mammalian IgG Fc receptors. To minimize cross-reactivity, the chicken anti–mouse IgG antibodies have been adsorbed against human and rabbit IgG prior to conjugation.

The Alexa Fluor® dyes to which these antibodies are conjugated provide for extraordinarily bright antibody conjugates. The approximate absorption and fluorescence emission maxima for each of the conjugates are shown in Table 1.

In addition to the secondary antibodies described in this Product Information sheet, 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 Web site at www.probes.com or contact our Technical Assistance Department for more information about these products.

Materials

Contents

The fluorophore-labeled chicken anti–mouse IgG (H+L) antibodies are supplied in unit sizes of 0.5 mL as 2 mg/mL solu-

tions in 0.1 M sodium phosphate, 0.1 M NaCl, pH 7.5, containing 5 mM sodium azide.

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. 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.

Storage

When these products are stored undiluted at 4°C and protected from light, they are stable for at least three months. For longer storage, divide the solution into single-use aliquots and freeze at –20°C. Frozen aliquots are stable for at least six months. PROTECT FROM LIGHT. AVOID REPEATED FREEZING AND THAWING.

Application

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.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 Web site or from our Customer Service Department.*

Cat #	Product Name	Unit Size
A-21200	Alexa Fluor® 488 chicken anti-mouse IgG (H+L) conjugate *2 mg/mL*	0.5 mL
A-21201	Alexa Fluor® 594 chicken anti-mouse IgG (H+L) conjugate *2 mg/mL*	0.5 mL
A-21463	Alexa Fluor® 647 chicken anti-mouse IgG (H+L) conjugate *2 mg/mL*	0.5 mL

Contact Information

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 Leiden, the Netherlands. All others should contact our Technical Assistance Department in Eugene, Oregon.

Please visit our Web site — www.probes.com — for the most up-to-date information

Molecular Probes, Inc.

PO Box 22010, Eugene, OR 97402-0469
Phone: (541) 465-8300 • Fax: (541) 344-6504

Customer Service: 7:00 am to 5:00 pm (Pacific Time)
Phone: (541) 465-8338 • Fax: (541) 344-6504 • order@probes.com

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

Technical Assistance: 8:00 am to 4:00 pm (Pacific Time)
Phone: (541) 465-8353 • Fax: (541) 465-4593 • tech@probes.com

Molecular Probes Europe BV

PoortGebouw, Rijnsburgerweg 10
2333 AA Leiden, The Netherlands
Phone: +31-71-5233378 • Fax: +31-71-5233419

Customer Service: 9:00 to 16:30 (Central European Time)
Phone: +31-71-5236850 • Fax: +31-71-5233419
eurorder@probes.nl

Technical Assistance: 9:00 to 16:30 (Central European Time)
Phone: +31-71-5233431 • Fax: +31-71-5241883
eurotech@probes.nl

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.

Several of Molecular Probes' products and product applications are covered by U.S. and foreign patents and patents pending. Our products are not available for resale or other commercial uses without a specific agreement from Molecular Probes, Inc. We welcome inquiries about licensing the use of our dyes, trademarks or technologies. Please submit inquiries by e-mail to busdev@probes.com. All names containing the designation ® are registered with the U.S. Patent and Trademark Office.

Copyright 2001, Molecular Probes, Inc. All rights reserved. This information is subject to change without notice.