

Labeled Donkey Anti–Sheep IgG Antibodies

Quick Facts

Storage upon receipt:

- 4°C
- Protect from light

Abs/Em: See Table 1

Working concentrations: 1–10 µg/mL

Introduction

Molecular Probes' donkey anti–sheep IgG conjugates (Table 1) are prepared from affinity-purified antibodies that react with IgG heavy chains and all classes of immunoglobulin light chains from sheep. To minimize cross-reactivity, the donkey

Table 1. Molecular Probes' labeled donkey anti–sheep IgG antibodies.*

Catalog #	Label	Abs †	Em †
D-20699	DSB-X™ biotin	NA	NA
A-21097	Alexa Fluor® 350	346	442
F-2810	Fluorescein	494	518
A-11015	Alexa Fluor® 488	495	519
A-21098	Alexa Fluor® 546	556	573
A-21436	Alexa Fluor® 555	555	565
A-21099	Alexa Fluor® 568	578	603
A-11016	Alexa Fluor® 594	590	617
A-21100	Alexa Fluor® 633 ‡	632	647
A-21448	Alexa Fluor® 647 ‡	650	668
A-21101	Alexa Fluor® 660 ‡	663	690
A-21102	Alexa Fluor® 680 ‡	679	702

* These donkey anti–sheep IgG antibodies have been adsorbed against mouse, rabbit, bovine and human sera and human IgG to minimize cross-reactivity. † Approximate absorption (Abs) and fluorescence emission (Em) maxima in nm for conjugates. ‡ Human vision is insensitive to light beyond ~650 nm, and therefore it is not possible to view the fluorescence of the Alexa Fluor 633, 647, 660 and 680 dyes by looking through a conventional fluorescence microscope.

anti–sheep IgG antibodies have been adsorbed against mouse, rabbit, bovine and human sera and human IgG prior to labeling.

In addition to the antibodies listed 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 and protein A. Please visit our Web site at www.probes.com or contact our Technical Assistance Department for more information about these products.

Materials

Contents

The donkey anti–sheep IgG conjugates 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 2–5 mM 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.

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 FLUORESCENT CONJUGATES 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 these 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-21097	Alexa Fluor [®] 350 donkey anti-sheep IgG (H+L) *2 mg/mL*	0.5 mL
A-11015	Alexa Fluor [®] 488 donkey anti-sheep IgG (H+L) *2 mg/mL*	0.5 mL
A-21098	Alexa Fluor [®] 546 donkey anti-sheep IgG (H+L) *2 mg/mL*	0.5 mL
A-21436	Alexa Fluor [®] 555 donkey anti-sheep IgG (H+L) *2 mg/mL*	0.5 mL
A-21099	Alexa Fluor [®] 568 donkey anti-sheep IgG (H+L) *2 mg/mL*	0.5 mL
A-11016	Alexa Fluor [®] 594 donkey anti-sheep IgG (H+L) *2 mg/mL*	0.5 mL
A-21100	Alexa Fluor [®] 633 donkey anti-sheep IgG (H+L) *2 mg/mL*	0.5 mL
A-21448	Alexa Fluor [®] 647 donkey anti-sheep IgG (H+L) *2 mg/mL*	0.5 mL
A-21101	Alexa Fluor [®] 660 donkey anti-sheep IgG (H+L) *2 mg/mL*	0.5 mL
A-21102	Alexa Fluor [®] 680 donkey anti-sheep IgG (H+L) *2 mg/mL*	0.5 mL
D-20699	DSB-X [™] biotin donkey anti-sheep IgG (H+L) *2 mg/mL*	0.5 mL
F-2810	fluorescein donkey anti-sheep IgG (H+L) *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

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