Labeled Donkey Anti–Rabbit IgG Antibodies

Table 1. Contents and storage information.

Material	Amount	Concentration	Storage	Stability
Fluorophore-labeled donkey anti-rabbit IgG (H+L) antibodies	0.5 mL	2 mg/mL solutions in 0.1 M sodium phosphate, 0.1 M NaCl, pH 7.5, 5 mM sodium azide	• 2–6°C • Protect from light • Avoid freeze-thaw cycles	When stored as directed, products are stable for at least 3 months.
Degree of labeling: Typically 2–8 fluorophore molecules per IgG molecule; the exact degree of labeling is indicated on the product label.				
Approximate fluorescence excitation/emission maxima: See Table 2.				

Introduction

Fluorescent donkey anti–rabbit IgG antibodies (Table 2) from Invitrogen are prepared from affinity-purified antibodies that react with IgG heavy chains and all classes of immunoglobulin light chains from rabbit. The Alexa Fluor® dyes to which these antibodies are conjugated provide for extraordinarily bright antibody conjugates. The donkey anti–rabbit IgG antibodies show minimum crossreactivity to bovine, chicken, goat, guinea pig, hamster, horse, human, mouse, rat, and sheep serum proteins. 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 product manual, Invitrogen 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. For more information about these products, visit probes.invitrogen.com or contact Technical Support.

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.

Table 2. Labeled donkey anti–rabbit IgG antibodies.*

Catalog #	Label	Ex †	Em †
A10039	Alexa Fluor® 350	346	442
A21206	Alexa Fluor® 488	495	519
A10040	Alexa Fluor® 546	556	573
A31572	Alexa Fluor® 555	555	565
A10042	Alexa Fluor® 568	578	603
A21207	Alexa Fluor® 594	590	617
A31573	Alexa Fluor® 647	650	668
A10043	Alexa Fluor® 680	663	690

* Minimum crossreactivity to bovine, chicken, goat, guinea pig, hamster, horse, human, rabbit, mouse, rat, and sheep serum proteins. † Approximate fluorescence excitation (Ex) and emission (Em) maxima, in nm, for conjugates.

Guidelines for Use

We recommend centrifuging the protein conjugate solution briefly in a microcentrifuge before use and add only the supernatant 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 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]

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. no	Product Name	Unit Size
A10039	Alexa Fluor® 350 donkey anti-rabbit IgG (H+L) *2 mg/mL*	0.5 mL
A21206	Alexa Fluor® 488 donkey anti-rabbit IgG (H+L) *2 mg/mL*	0.5 mL
A10040	Alexa Fluor® 546 donkey anti-rabbit IgG (H+L) *2 mg/mL*	0.5 mL
A31572	Alexa Fluor® 555 donkey anti-rabbit IgG (H+L) *2 mg/mL*	0.5 mL
A10042	Alexa Fluor® 568 donkey anti-rabbit IgG (H+L) *2 mg/mL*	0.5 mL
A21207	Alexa Fluor® 594 donkey anti-rabbit IgG (H+L) *2 mg/mL*	0.5 mL
A31573	Alexa Fluor® 647 donkey anti-rabbit IgG (H+L) *2 mg/mL*	0.5 mL
A10043	Alexa Fluor® 680 donkey anti-rabbit IgG (H+L) *2 mg/mL*	0.5 mL

Visit www.invitrogen.com/antibody for reagents and tools for antibody research..

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