

## Labeled Donkey Anti-Rat IgG Antibodies

### Quick Facts

#### Storage upon receipt:

- 4°C
- Protect from light

**Abs/Em:** See Table 1

**Working Concentration:** 1–10 µg/mL

### Introduction

Molecular Probes' fluorescent donkey anti-rat IgG antibodies (Table 1) are prepared from affinity-purified antibodies that react with IgG heavy chains and all classes of immunoglobulin light chains from rat. The Alexa Fluor® dyes to which these antibodies are conjugated provide for extraordinarily bright antibody conjugates. The donkey anti-rat IgG antibodies show minimum cross reactivity to bovine, chicken, goat, guinea pig, hamster, horse, human, mouse, rabbit and sheep serum proteins. The approximate adsorption 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 antibod-

ies, 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](http://www.probes.com) or contact our Technical Assistance Department for more information about these products.

### Materials

#### Contents

The fluorophore-labeled donkey anti-rat 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 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.<sup>1</sup>

**Table 1.** Molecular Probes' labeled donkey anti-rat IgG antibodies.\*

Catalog #	Label	Abs †	Em †
A-21208	Alexa Fluor® 488	495	519
A-21209	Alexa Fluor 594	590	617

\* Minimum cross reactivity to bovine, chicken, goat, guinea pig, hamster, horse, human, mouse, rabbit and sheep serum proteins. † Approximate absorption (Abs) and fluorescence emission (Em) maxima in nm for conjugates.

### References

1. *Short Protocols in Molecular Biology, 2<sup>nd</sup> Edition*, F.M. Ausubel et al., Eds., John Wiley and Sons (1992) pp. 14-24–14-30.

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**Product List** *Current prices may be obtained from our Web site or from our Customer Service Department.*

Cat #	Product Name	Unit Size
A-21208	Alexa Fluor® 488 donkey anti-rat IgG (H+L) conjugate *2 mg/mL* .....	0.5 mL
A-21209	Alexa Fluor® 594 donkey anti-rat IgG (H+L) conjugate *2 mg/mL* .....	0.5 mL

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**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.

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