

Anti-Alexa Fluor® 488, Rabbit IgG Fraction (A-11094)

Quick Facts

Storage upon receipt:

- 4°C or -20° in aliquots
- Avoid freeze-thaw cycles

(PBS), pH 7.2, containing 5 mM sodium azide. Molecular Probes uses a sensitive quenching assay to ensure that this antibody is provided at a consistently high titer value. As supplied, 20 µL of the antibody solution is certified to produce ≥50% of the maximal fluorescence quenching of 1 mL of a 50 nM solution of Alexa Fluor 488 dye, assayed in 100 mM sodium phosphate, pH 8.0. Maximal quenching corresponds to more than 90% of the fluorescence of the free dye. Due to steric hindrance or limited accessibility of the Alexa Fluor 488 dye, maximal fluorescence quenching of Alexa Fluor 488 conjugates may be significantly less.

Storage and Handling

When this product is stored undiluted at 4°C, it is stable for at least three months. For longer storage, divide solution into single-use aliquots and freeze at -20°C. Frozen aliquots are stable for at least six months. AVOID REPEATED FREEZING AND THAWING.

Application

Our anti-dye antibodies can be used in many different applications.⁵ Because staining protocols vary with application, the appropriate dilution of antibody should be determined empirically.

Introduction

Anti-fluorescent dye antibodies recognize specific fluorophores and, in most cases, quench their fluorescence. Thus, many anti-dye antibodies can serve as cell-impermeant probes for determining whether fluorescent dye-conjugated ligands, proteins, bacteria or other biomolecules have been internalized by endocytic or pinocytic processes.¹⁻⁴

Molecular Probes' anti-Alexa Fluor® 488 antibody has been found to efficiently quench the fluorescence of Alexa Fluor 488 dye. In contrast, anti-Alexa Fluor 488 does not appreciably quench the fluorescence of fluorescein, carboxytetramethylrhodamine (TAMRA) or Alexa Fluor 594 dye. The high affinity of the anti-Alexa Fluor 488 antibody makes it potentially useful for immunochemical applications.

Materials

Contents

The anti-Alexa Fluor 488 antibody is supplied in a unit size of 0.5 mL as a 1 mg/mL solution in phosphate-buffered saline

References

1. Biochemistry 30, 2888 (1991);
2. Biochim Biophys Acta 817, 238 (1985);
3. Biochim Biophys Acta 778, 612 (1984);
4. J Biol Chem 259, 5661 (1984);
5. Harlow, E. and Lane, D., *Antibodies: A Laboratory Manual*, Cold Spring Harbor Laboratory Press (1988).

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

Cat #	Product Name	Unit Size
A-11094	anti-Alexa Fluor® 488, rabbit IgG fraction *1 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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