Revised: 23–February–2001

Anti–BODIPY® FL Antibody, Rabbit IgG Fraction (A-5770)

Quick Facts

Storage upon receipt:

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

Introduction

Molecular Probes offers a variety of anti–fluorescent dye antibodies that recognize specific fluorophores and, in most cases, quench their fluorescence. These anti-dye antibodies, including our antibody to the BODIPY® FL fluorophore, 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]

The anti–BODIPY FL antibody (A-5770) was raised against the BODIPY FL fluorophore and exhibits no appreciable cross-reaction with non-BODIPY dyes, although it will crossreact to varying extents with other BODIPY dyes. In solution assays, we have found that this antibody effectively quenches the fluorescence of the BODIPY FL fluorophore, but quenches the BODIPY TR dye to a lesser extent and does not significantly quench the BODIPY TMR dye.

Materials

Contents

The anti–BODIPY FL antibody is supplied in a unit size of 0.5 mL as a 3 mg/mL solution in phosphate-buffered saline (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 BODIPY FL dye, assayed in 100 mM sodium phosphate, pH 8.0. Maximal quenching for BODIPY FL dye is ~80% of the fluorescence of the free dye. Due to steric hindrance, maximal fluorescence quenching of the BODIPY FL fluorophore covalently bound to protein may be significantly less.

Storage

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

Application

It is a good practice to centrifuge protein conjugate solutions 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.

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.

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-5770	anti-BODIPY® FL, rabbit IgG fraction *3 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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