

Mouse Anti-Human Isotype Specific Monoclonal Antibodies

Table 1. Contents and storage information.

| Material | Amount | Concentration | Storage | Stability |
|--|--------|---|---|---|
| Unlabeled antibodies | 250 µL | 1 mg/mL in PBS, pH 7.2, 5 mM azide | <ul style="list-style-type: none"> • 2–6°C • Avoid freeze-thaw cycles | <ul style="list-style-type: none"> • When stored undiluted as directed, products are stable for at least 3 months. • For longer storage, divide solution into single-use aliquots and freeze at ≤–20°C, which are stable for at least 6 months. |
| Alexa Fluor® dye and biotin conjugates | | 1 mg/mL in 0.1 M NaPi, 0.1 M NaCl, pH 7.5, 5 mM azide | | |
| Horseradish peroxidase conjugates | 200 µg | NA | <ul style="list-style-type: none"> • ≤–20°C • Desiccate • Avoid freeze-thaw cycles | When stored as directed, products are stable for at least 6 months. |

Approximate fluorescence excitation/emission maxima: Alexa Fluor® 488: 495/519 in nm.

Introduction

Invitrogen offers several mouse anti-human IgG isotype specific monoclonal antibodies labeled with horseradish peroxidase (HRP), biotin, or the Alexa Fluor® 488 dye (Table 2). These conjugates are suitable for fluorescence microscopy, flow cytometry, ELISAs, and western blotting.

Table 2. Mouse anti-human isotype specific monoclonal antibodies.

| Antibody | Unconjugated | Biotin-XX | HRP | Alexa Fluor® 488 |
|--|--------------|-----------|--------|------------------|
| Mouse anti-human IgG ₁ (clone HP6069) | A10630 | A10650 | A10648 | A10631 |
| Mouse anti-human IgG ₄ (clone HP6025) | A10651 | A10663 | A10654 | — |

Guidelines for Use

Preparing HRP Conjugates

Reconstitute horseradish peroxidase conjugates in 200 μ L of phosphate-buffered saline (PBS), pH 7.2, to yield 1 mg/mL stock solutions.

Store solution at 2–6°C with the addition of thimerosal to a final concentration of 0.02%. For prolonged storage after reconstitution, add glycerol to a final concentration of 50% (v/v), aliquot, and store at \leq -20°C. When stored properly, solution is stable for approximately three months.

Using Conjugate Solutions

Centrifuge the protein conjugate solution briefly in a microcentrifuge before use; add only the supernatant to the experiment. This step eliminates any protein aggregates that may form during storage, and reduces nonspecific background staining.

Because staining protocols vary with application, the appropriate dilution of antibody should be determined empirically.

- For the fluorophore- and biotin-labeled antibodies, a final concentration of 1–10 μ g/mL is satisfactory for most immunohistochemical applications.
- For flow cytometry applications, 0.06–1.0 μ g of antibody per 1×10^6 cells yields satisfactory results.
- For ELISAs, antibody conjugates of horseradish peroxidase working dilutions of 1:500 to 1:2,000 from 1 mg/mL stock solutions are suitable.

Reference

1. Immunology Letters 10, 223 (1985).

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

| Cat. no. | Product Name | Unit Size |
|----------|--|-------------|
| A10630 | mouse anti-human IgG ₁ *1 mg/mL*..... | 250 μ L |
| A10631 | Alexa Fluor® 488 mouse anti-human IgG ₁ *1 mg/mL*..... | 250 μ L |
| A10648 | mouse anti-human IgG ₁ , horseradish peroxidase conjugate | 200 μ g |
| A10650 | biotin-XX mouse anti-human IgG ₁ *1 mg/mL*..... | 250 μ L |
| A10651 | mouse anti-human IgG ₄ *1 mg/mL*..... | 250 μ L |
| A10654 | mouse anti-human IgG ₄ , horseradish peroxidase conjugate | 200 μ g |
| A10663 | biotin-XX mouse anti-human IgG ₄ *1 mg/mL*..... | 250 μ L |

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