Rat Anti-Mouse IgG₁

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1144-01</td>
<td>Purified (UNLB)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1144-02</td>
<td>Fluorescein (FITC)</td>
<td>0.5 mg</td>
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<tr>
<td>1144-04</td>
<td>Alkaline Phosphatase (AP)</td>
<td>1.0 mL</td>
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<tr>
<td>1144-05</td>
<td>Horseradish Peroxidase (HRP)</td>
<td>1.0 mL</td>
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<tr>
<td>1144-08</td>
<td>Biotin (BIOT)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1144-09</td>
<td>R-phycocerythrin (PE)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>1144-30</td>
<td>Alexa Fluor® 488 (AF488)</td>
<td>0.1 mg</td>
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<tr>
<td>1144-31</td>
<td>Alexa Fluor® 647 (AF647)</td>
<td>0.1 mg</td>
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<tr>
<td>1144-32</td>
<td>Alexa Fluor® 555 (AF555)</td>
<td>0.1 mg</td>
</tr>
</tbody>
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Overview

Clone: SB77e
Isotype: Rat (Sprague Dawley) IgG₂b,κ
Immunogen: Unknown
Specificity: Mouse IgG₁ Fc

Minimal reactivity to human, goat, and rabbit IgG and human, rat, hamster, bovine, horse, goat, sheep, chicken, guinea pig, donkey, and rabbit serum

Applications

- FC – Quality tested ¹-⁵
- ELISA – Quality tested ⁶-²³
- FLISA – Quality tested
- IHC-FS – Reported in literature ²⁴
- IHC-PS – Reported in literature ²⁵
- ICC – Reported in literature ²⁶
- WB – Reported in literature ²⁷

Working Dilutions

**Flow Cytometry**
- FITC, BIOT, and AF488 conjugates: ≤ 1.0 µg/10⁶ cells
- PE and AF647 conjugates: ≤ 0.1 µg/10⁶ cells

For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL

**ELISA**
- AP conjugate: 1:1,000 – 1:4,000
- HRP conjugate: 1:4,000 – 1:8,000
- BIOT conjugate: 1:5,000 – 1:20,000

**FLISA**
- FITC, AF488, and AF555 conjugates: 1:100 – 1:400
- PE and AF647 conjugates: ≤ 1 µg/mL

**Other Applications**

Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.
Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The fluorescein (FITC) and biotin (BIOT) conjugates are supplied as 0.5 mg in 1.0 mL of PBS/NaNO₃. Store at 2-8°C.
- The alkaline phosphatase (AP) conjugate is supplied as 1.0 mL in a stock solution of 50 mM Tris/1 mM MgCl₂/50% glycerol, pH 8.0, containing NaNO₃ as preservative. Store at 2-8°C or long-term at -20°C.
- The horseradish peroxidase (HRP) conjugate is supplied as 1.0 mL in a stock solution of 50% glycerol/50% PBS, pH 7.4. No preservative added. Store at 2-8°C or long-term at -20°C.
- The R-phycocerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaNO₃ and a stabilizing agent. Store at 2-8°C. Do not freeze!
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 555 (AF555), and Alexa Fluor® 647 (AF647) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaNO₃. Store at 2-8°C.
- Protected fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to specific product SDS.

References

1. Gilbert JM. Increases in cortisol due to wearing stress and the subjective alternations to immune function in beef calves [thesis]. Blacksburg (USA): Virginia Polytechnic Institute and State University; 2010. (FC)
15. Chua BY, Sekiya T, Al Kobaisi M, Short KR, Mainwaring DE, Jackson DC. A single dose biodegradable vaccine depot that induces persistently high levels of antibody over a year. Biomaterials. 2015;53:50-7. (ELISA)

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