Rat Anti-Mouse CD90.2

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1750-01</td>
<td>Purified (UNLB)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1750-02</td>
<td>Fluorescein (FITC)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1750-02S</td>
<td>Fluorescein (FITC)</td>
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<tr>
<td>1750-08</td>
<td>Biotin (BIOT)</td>
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</tr>
<tr>
<td>1750-09</td>
<td>R-phycoerythrin (PE)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>1750-09L</td>
<td>R-phycoerythrin (PE)</td>
<td>0.2 mg</td>
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<tr>
<td>1750-11</td>
<td>Allophycocyanin (APC)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>1750-13</td>
<td>Spectral Red® (SPRD)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>1750-14</td>
<td>Low Endotoxin, Azide-Free (LE/AF)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1750-26</td>
<td>Pacific Blue™ (PACBLU)</td>
<td>0.1 mg</td>
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<tr>
<td>1750-27</td>
<td>Alexa Fluor® 700 (AF700)</td>
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<tr>
<td>1750-30</td>
<td>Alexa Fluor® 488 (AF488)</td>
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<tr>
<td>1750-31</td>
<td>Alexa Fluor® 647 (AF647)</td>
<td>0.1 mg</td>
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</tbody>
</table>

Overview

Clone            30-H12
Isotype          Rat (LOU/Ws1/M) IgG2bκ
Immunogen        Mouse thymus or spleen
Specificity      Mouse CD90.2 (Thy-1.2 alloantigen); Mr 25-30 kDa
Alternate Name(s)Thy-1.2

Description

CD90 (Thy-1) is a GPI-anchored molecule and one of the smallest members of the immunoglobulin superfamily consisting of a single V-set domain. The Thy-1.2 alloantigen is expressed on all thymocytes, peripheral T lymphocytes, and some intraepithelial T cells of most mouse strains. It is also expressed in the brain and at varying levels on other non-lymphoid tissues. The 30-H12 monoclonal antibody does not cross react with mouse and rat strains bearing the Thy-1.1 alloantigen (e.g., AKR/J, PL).

Applications

FC – Quality tested 1,2,9,10
IHC-FS – Reported in literature 2,3
ICC – Reported in literature 4
IP – Reported in literature 1
Depletion – Reported in literature 5,6
Costim – Reported in literature 7,8
Apop – Reported in literature 7,8

Working Dilutions

Flow Cytometry
- Purified (UNLB) antibody: ≤ 1 μg/10^6 cells
- FITC, BIOT, and AF488 conjugates: ≤ 1 μg/10^6 cells
- APC, SPRD, PACBLU, and AF647 conjugates: ≤ 0.2 μg/10^6 cells
- AF700 conjugate: ≤ 0.1 μg/10^6 cells
- PE conjugate: ≤ 0.05 μg/10^6 cells

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

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 of 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) conjugate is supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN3. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN3. Store at 2-8°C.
- The R-phycocerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8°C. Do not freeze!
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8°C. Do not freeze!
- The Spectral Red® (SPRD) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8°C. Do not freeze!
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of PBS. Aliquot and store at or below -20°C.
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), Alexa Fluor® 700 (AF700), and Pacific Blue™ (PACBLU) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN3. Store at 2-8°C.

Protect 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 product specific (M)SDS.

References

5. Sharma N, He Q, Sharma RP. Amelioration of fumonisin B1 hepatotoxicity in mice by depletion of T cells with anti-Thy-1.2. Toxicology. 2006;223:191-201. (Depletion)

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Spectral Red™ is a PE/CY5 tandem conjugate.
Cy™ is a registered trademark of GE Healthcare.
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