Antibodies

**Anti-Mouse CD90.2 (Thy-1.2) Antibody, Clone 53-2.1, APC**

Rat monoclonal IgG2a antibody against mouse CD90.2 (Thy-1.2), APC-conjugated

<table>
<thead>
<tr>
<th>Catalog</th>
<th>Concentration</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>#60115AZ</td>
<td>100 µg</td>
<td>0.2 mg/mL</td>
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<tr>
<td>#60115AZ.1</td>
<td>25 µg</td>
<td>0.2 mg/mL</td>
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</tbody>
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Product Description

The 53-2.1 monoclonal antibody reacts with mouse CD90.2 (Thy-1.2), an ~25 - 35 kDa glycosphatidylinositol (GPI)-anchored glycoprotein expressed at high levels on the surface of thymocytes, most peripheral T cells and lymphatic endothelial cells, and at lower levels on hematopoietic stem cells, some intraepithelial T lymphocytes, fibroblasts and neurons. CD90.2 is an allelic form of the CD90 antigen expressed by mouse strains BALB/c, C3H/He, C57BL/6, C58/, CBA/J, DBA, NZB/N, SJL and others. The 53-2.1 antibody does not react with CD90.1, which is expressed by mouse strains such as AKR/J, PL, and FVB/N, or with rat CD90. CD90.2 has been shown to be involved in costimulation of lymphocyte proliferation, as well as in hematopoietic stem cell differentiation and thymocyte adhesion. The 53-2.1 antibody reportedly blocks the binding of antibody clone 30-H12.

**Target Antigen Name:** CD90.2 (Thy-1.2)  
**Alternative Names:** T25, Thy-1.2, Thy 1b, Thymus cell antigen 1 theta  
**Gene ID:** 21838  
**Species Reactivity:** Mouse (does not react with CD90.1/Thy-1.1)  
**Host Species:** Rat (LOU)  
**Clonality:** Monoclonal  
**Clone:** 53-2.1  
**Isotype:** IgG2a, kappa  
**Immunogen:** Mouse thymus or spleen cells  
**Conjugate:** APC

Applications

**Verified:** FC  
**Reported:** FC  
**Special Applications:** This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse T Cell Enrichment Kit (Catalog #19751), EasySep™ Mouse CD4+ T Cell Enrichment Kit (Catalog #19752) and EasySep™ Mouse CD8+ T Cell Enrichment Kit (Catalog #19753).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide  
**Purification:** The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.  
**Stability and Storage:** Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.  
**Directions for Use:** For flow cytometry the suggested use of this antibody is ≤ 0.06 µg per 1 x 10^6 cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application.
Data

Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD90.2 (Thy-1.2) Antibody, Clone 53-2.1, APC (filled histogram) or a rat IgG2a, kappa isotype control antibody, APC (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

2. Leveson-Gower DB et al. (2011) Low doses of natural killer T cells provide protection from acute graft-versus-host disease via an IL-4-dependent mechanism. Blood 117(11): 3220-29. (FC)