** FITC Rat Anti-Mouse Vα2 TCR **

**Product Information**

**Material Number:** 553288  
**Alternate Name:** T cell receptor alpha, variable region 2  
**Size:** 0.25 mg  
**Concentration:** 0.5 mg/ml  
**Clone:** B20.1  
**Immunogen:** Soluble αβ TCR from mouse cytotoxic T-cell clone KB5-C20  
**Isotype:** Rat (LOU) IgG2a, λ  
**Reactivity:** QC Testing: Mouse  
**Storage Buffer:** Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The B20.1 monoclonal antibody specifically binds to most members of the Vα2 T-cell Receptor (TCR) subfamily in mice having the a, b, and c haplotypes of the Tcrb gene complex. B20.1 antibody may crossreact with Vδ8 TCR, which shares >90% sequence homology with Vα2 TCR. Levels of B20.1+ T cells appear to be influenced by Vα haplotypes. Moreover, the frequencies of Vα2+ CD8+ and CD4+ T cells are influenced by H-2 haplotypes.

For flow cytometry of cell suspensions from peripheral lymphoid tissues, it is recommended that multicolor staining be performed to distinguish T lymphocytes from non-T cells.

**Preparation and Storage**

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

**Application Notes**

**Application**  
Flow cytometry Routinely Tested

**Suggested Companion Products**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553048</td>
<td>PE Rat Anti-Mouse CD4</td>
<td>0.1 mg</td>
<td>RM4-5</td>
</tr>
<tr>
<td>553041</td>
<td>PE Rat Anti-Mouse CD8b.2</td>
<td>0.1 mg</td>
<td>53-5.8</td>
</tr>
<tr>
<td>557077</td>
<td>FITC Rat IgG2a, λ Isotype Control</td>
<td>0.25 mg</td>
<td>B39-4</td>
</tr>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
<tr>
<td>553730</td>
<td>PE Rat Anti-Mouse CD4</td>
<td>0.2 mg</td>
<td>GK1.5</td>
</tr>
<tr>
<td>561829</td>
<td>PE Rat Anti-Mouse CD4</td>
<td>25 µg</td>
<td>GK1.5</td>
</tr>
<tr>
<td>557308</td>
<td>PE Rat Anti-Mouse CD4</td>
<td>0.1 mg</td>
<td>GK1.5</td>
</tr>
<tr>
<td>562085</td>
<td>FITC Rat Anti-Mouse Vα2 TCR</td>
<td>25 µg</td>
<td>B20.1</td>
</tr>
</tbody>
</table>

**BD Biosciences**

bdbiosciences.com

For country contact information, visit bdbiosciences.com/contact

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

© 2016 BD. BD, the BD Logo and all other trademarks are property of Becton, Dickinson and Company.
Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References