### DESCRIPTION

**Species Reactivity**  
Mouse

**Specificity**  
Reacts with mouse TCR-associated CD3 complex that occurs on thymocytes and mature T cells.

**Source**  
Monoclonal Rat IgG2B Clone # 17A2

**Purification**  
Protein A or G purified from hybridoma culture supernatant

**Immunogen**  
T cell hybridoma D1

**Endotoxin Level**  
<0.10 EU per 1 µg of the antibody by the LAL method.

**Formulation**  
Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. **General Protocols** are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
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</thead>
<tbody>
<tr>
<td>Mouse splenocytes</td>
<td>0.25 µg/10⁶ cells</td>
</tr>
<tr>
<td>See Below</td>
<td>3-25 µg/mL</td>
</tr>
<tr>
<td>See Below</td>
<td>8-25 µg/mL</td>
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</tbody>
</table>

**CyTOF-ready**  
Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.

**Complement-dependent Cytotoxicity**  

**Immunoprecipitation**  

**T Cell Stimulation**  

### DATA

**Immunocytochemistry**  
CD3 in Mouse Splenocytes. CD3 was detected in immersion fixed mouse splenocytes using Rat Anti-Mouse CD3 Monoclonal Antibody (Catalog # MAB4841) at 3 µg/ml for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to plasma membrane. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

**Immunohistochemistry**  
CD3 in Mouse Brain. CD3 was detected in perfusion fixed HSV-1 infected frozen sections of mouse brain (perivascular cuffing) using 10 µg/ml Rat Anti-Mouse CD3 Monoclonal Antibody (Catalog # MAB4841) overnight at 4 °C. Tissue was stained using the NorthernLights™ 493-conjugated Anti-Rat IgG Secondary Antibody (green; Catalog # NL015) and counterstained with DAPI (blue). View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.

### PREPARATION AND STORAGE

**Reconstitution**  
Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

**Stability & Storage**  
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.