

## DESCRIPTION

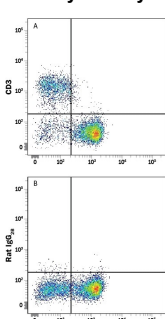
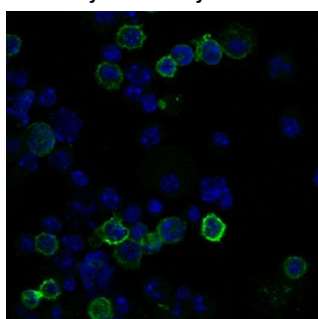
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Reacts with mouse TCR-associated CD3 complex that occurs on thymocytes and mature T cells.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 17A2
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	T cell hybridoma D1
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## 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.

	Recommended Concentration	Sample
<b>Flow Cytometry</b>	5 µL/10 <sup>6</sup> cells	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below

## DATA

Flow Cytometry	Immunocytochemistry
 <p><b>Detection of CD3 in Mouse Splenocytes by Flow Cytometry.</b> Mouse splenocytes were stained with Rat Anti-Mouse B220/CD45R APC-conjugated Monoclonal Antibody (Catalog # FAB1217A) and either (A) Rat Anti-Mouse CD3 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB4841G) or (B) Rat IgG<sub>2B</sub> Alexa Fluor 488 Isotype Control (Catalog # IC013G). View our protocol for <a href="#">Staining Membrane-associated Proteins</a>.</p>	 <p><b>CD3 in Mouse Splenocytes.</b> CD3 was detected and stained in immersion fixed adult mouse splenocytes using Rat Anti-Mouse CD3 Alexa Fluor® 488-conjugated Monoclonal Antibody (green; Catalog # FAB4841G) at 5 µg/mL for 3 hours at room temperature. Cells were counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for <a href="#">Fluorescent ICC Staining of Non-adherent Cells</a>.</p>

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

Monoclonal 17A2 was generated by immunizing rats with a T-cell hybridoma (1). This antibody has been shown to react with the epsilon chain of the CD3 complex (1). The CD3 protein complex is expressed on thymocytes and mature T-cells and, therefore, is a useful reagent to monitor T-cell frequencies in tissues.

### References:

1. Miescher, G.C. *et al.* (1989) *Immunol. Lett.* **23**:113.

## PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.