

## DESCRIPTION

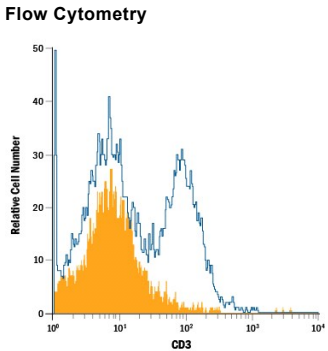
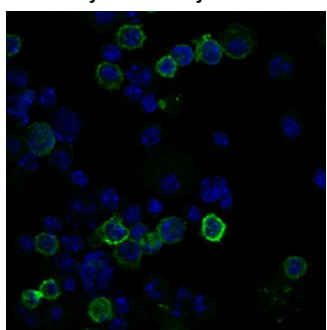
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Reacts with mouse TCR-associated CD3 complex that occurs on thymocytes and mature T cells.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 17A2
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	T cell 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.

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

## DATA

<b>Flow Cytometry</b>	<b>Immunocytochemistry</b>
 <p><b>Detection of CD3 in Mouse Splenocytes by Flow Cytometry.</b> Mouse splenocytes were stained with Rat Anti-Mouse CD3 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB4841G, open histogram) or isotype control antibody (Catalog # IC013G, filled histogram). 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

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