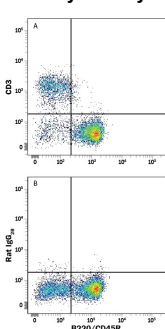
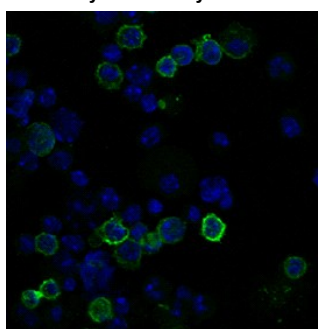


DESCRIPTION	
Species Reactivity	Mouse
Specificity	Reacts with mouse TCR-associated CD3 complex that occurs on thymocytes and mature T cells.
Source	Monoclonal Rat IgG _{2B} Clone # 17A2
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	T cell hybridoma D1
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	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. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.		
	Recommended Concentration	Sample
Flow Cytometry	5 µL/10 ⁶ cells	See Below
Immunocytochemistry	8-25 µg/mL	See Below

DATA	
<p>Flow Cytometry</p>  <p>Detection of CD3 in Mouse Splenocytes by Flow Cytometry. 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_{2B} Alexa Fluor 488 Isotype Control (Catalog # IC013G). View our protocol for Staining Membrane-associated Proteins.</p>	<p>Immunocytochemistry</p>  <p>CD3 in Mouse Splenocytes. 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 Fluorescent ICC Staining of Non-adherent Cells.</p>

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

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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