

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CD3. Recognizes mouse T cell receptor-associated CD3 complex that is expressed 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>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

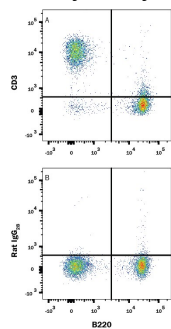
## APPLICATIONS

**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>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below
<b>Immunohistochemistry</b>	Miescher, G.C. <i>et al.</i> (1989) <i>Immunol. Lett.</i> <b>23</b> :113.	
<b>Immunoprecipitation</b>	Miescher, G.C. <i>et al.</i> (1989) <i>Immunol. Lett.</i> <b>23</b> :113.	

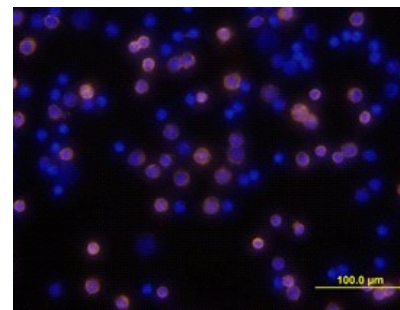
## DATA

### Flow Cytometry



**Detection of CD3 in Mouse Splenocytes by Flow Cytometry.** Mouse splenocytes were stained with (A) Rat Anti-Mouse Biotinylated CD3 Monoclonal Antibody (Catalog # BAM4841) or (B) Rat IgG2B Biotinylated isotype control antibody (Catalog # IC013B) followed by Streptavidin-Phycoerythrin (Catalog # F0040) and Rat Anti-Mouse B220/CD45R APC-conjugated Monoclonal Antibody (Catalog # FAB1217A). View our protocol for [Staining Membrane-associated Proteins](#).

### Immunocytochemistry



**CD3 in Mouse Splenocytes.** CD3 was detected in immersion fixed mouse splenocytes using Rat Anti-Mouse CD3 Biotinylated Monoclonal Antibody (Catalog # BAM4841) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Streptavidin (yellow; Catalog # NL999) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>