

DESCRIPTION

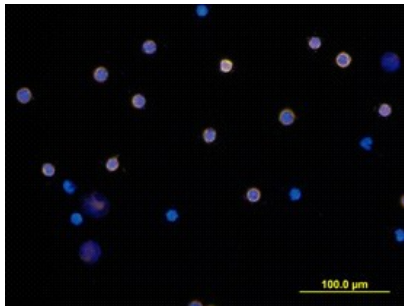
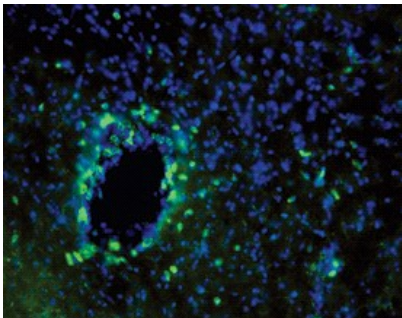
Species Reactivity	Mouse
Specificity	Reacts with mouse TCR-associated CD3 complex that occurs on thymocytes and mature T cells.
Source	Monoclonal Rat IgG _{2B} Clone # 17A2
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	T cell hybridoma D1
Endotoxin Level	<0.10 EU per 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 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.

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10 ⁶ cells	Mouse splenocytes
Immunocytochemistry	8-25 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Complement-dependent Cytotoxicity	Miescher, G.C. <i>et al.</i> (1989) <i>Immunol. Lett.</i> 23 :113 and Wu, L. <i>et al.</i> (1991) <i>J. Exp. Med.</i> 174 :1617.	
Immunoprecipitation	Miescher, G.C. <i>et al.</i> (1989) <i>Immunol. Lett.</i> 23 :113.	
T Cell Stimulation	Miescher, G.C. <i>et al.</i> (1989) <i>Immunol. Lett.</i> 23 :113.	

DATA

<p>Immunocytochemistry</p>  <p>CD3 in Mouse Splenocytes. CD3 was detected in immersion fixed mouse splenocytes using Rat Anti-Mouse CD3 Monoclonal Antibody (Catalog # MAB4841) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (yellow; Catalog # NL013) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Non-adherent Cells.</p>	<p>Immunohistochemistry</p>  <p>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.</p>
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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. <ul style="list-style-type: none"> ● 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.