

**DESCRIPTION**

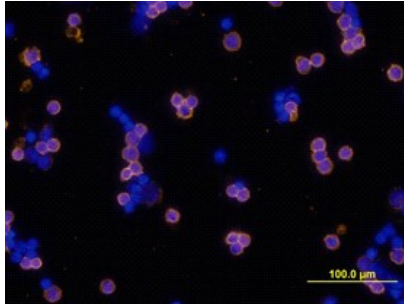
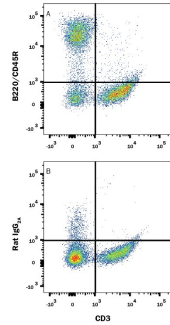
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse B220/CD45R.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # RA3-6B2
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Abelson mouse leukemia virus-induced pre-B tumor cells
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below
<b>CyTOF-reported</b>	Lee, H. <i>et al.</i> (2015) <i>Mucosal Immunol.</i> <b>8</b> : 1083. Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
<b>Immunoprecipitation</b>	Coffman, R.L. (1982) <i>Immuno. Rev.</i> <b>69</b> :5.	

**DATA**

<p><b>Immunocytochemistry</b></p>  <p><b>B220/CD45R in Mouse Splenocytes.</b> B220/CD45R was detected in immersion fixed mouse splenocytes using Rat Anti-Mouse B220/CD45R Monoclonal Antibody (Catalog # MAB1217) 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 <a href="#">Fluorescent ICC Staining of Non-adherent Cells</a>.</p>	<p><b>Flow Cytometry</b></p>  <p><b>Detection of B220/CD45R in Mouse Splenocytes by Flow Cytometry.</b> Mouse splenocytes were stained with Rat Anti-Mouse CD3 APC-conjugated Monoclonal Antibody (Catalog # FAB4841A) and either (A) Rat Anti-Mouse B220/CD45R Monoclonal Antibody (Catalog # MAB1217) or (B) Rat IgG<sub>2A</sub> Isotype Control (Catalog # MAB006) followed by Phycoerythrin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0105B).</p>
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**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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <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>

**BACKGROUND**

B220 is the mouse CD45 isoform CD45R, which is predominantly expressed on all B lymphocytes, including pro-, mature and activated B cells (1-3). The level of B220 antigen expression on the B cell lineage is developmentally regulated (2-4) and this antibody is commonly used as a B cell marker. RA3-6B2 has been reported to inhibit *in vivo* B cell responses (5, 6).

**References:**

1. Coffman, R.L. (1982) *Immuno. Rev.* **69**:5.
2. Hardy, R.R. *et al.* (1991) *J. Exp. Med.* **173**:1213.
3. Hathcock, K.S. *et al.* (1992) *J. Immunol.* **149**:2286.
4. Allman, D.M. *et al.* (1992) *J. Immunol.* **149**:2533.
5. Asensi, V.K. *et al.* (1989) *Immunology* **68**:204.
6. Domiati-Saad, R. *et al.* (1993) *J. Immunol.* **151**:5936.