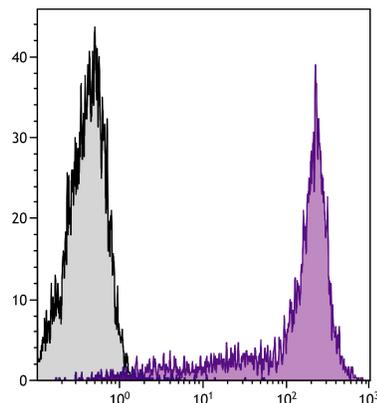




## Rat Anti-Mouse CD45RB

Cat. No.	Format	Size
1675-01	Purified (UNLB)	0.5 mg
1675-02	Fluorescein (FITC)	0.5 mg
1675-02S	Fluorescein (FITC)	0.1 mg
1675-08	Biotin (BIOT)	0.5 mg
1675-09	R-phycoerythrin (PE)	0.1 mg
1675-13	Spectral Red <sup>®</sup> (SPRD)	0.1 mg
1675-31	Alexa Fluor <sup>®</sup> 647 (AF647)	0.1 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD45RB-SPRD (SB Cat. No. 1675-13).

### Overview

<b>Clone</b>	C363.16A
<b>Isotype</b>	Rat IgG <sub>2a</sub> κ
<b>Immunogen</b>	Cloned mouse Th cell line
<b>Specificity</b>	Mouse CD45RB; Mr 200-240 kDa
<b>Alternate Name(s)</b>	N/A

### Description

CD45RB represents an exon B-dependent form of CD45 glycoprotein. It is expressed at high density on peripheral B cells, the suppressor/cytotoxic subpopulation of T lymphocytes, a subset of helper T cells, most thymocytes, and at low density on macrophages and dendritic cells.

### Applications

FC – Quality tested <sup>1,2,4</sup>  
 Sep – Reported in literature <sup>3</sup>

### Working Dilutions

<b>Flow Cytometry</b>	FITC and BIOT conjugates	≤ 1 μg/10 <sup>6</sup> cells
	PE, SPRD, and AF647 conjugates	≤ 0.2 μg/10 <sup>6</sup> cells

For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL.

**Other Applications** Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

**For Research Use Only. Not for Diagnostic or Therapeutic Use.**

## Handling and Storage

---

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg or 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red<sup>®</sup> (SPRD) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Alexa Fluor<sup>®</sup> 647 (AF647) conjugate is supplied as 0.1 mg in 0.2 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

## Warning

---

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

## References

---

1. Johnson P, Greenbaum L, Bottomly K, Trowbridge IS. Identification of the alternatively spliced exons of murine CD45 (T200) required for reactivity with B220 and other T200-restricted antibodies. *J Exp Med.* 1989;169:1179-84. (FC)
2. Hathcock KS, Laszlo G, Dickler HB, Sharrow SO, Johnson P, Trowbridge IS, et al. Expression of variable exon A-, B-, and C-specific CD45 determinants on peripheral and thymic T cell populations. *J Immunol.* 1992;148:19-28. (FC)
3. Farber DL, Acuto O, Bottomly K. Differential T cell receptor-mediated signaling in naive and memory CD4 T cells. *Eur J Immunol.* 1997;27:2094-101. (Sep)
4. Borlado LR, Redondo C, Alvarez B, Jimenez C, Criado LM, Flores J, et al. Increased phosphoinositide 3-kinase activity induces a lymphoproliferative disorder and contributes to tumor generation in vivo. *FASEB J.* 2000;14:895-903. (FC)

Spectral Red<sup>®</sup> is a registered trademark of Southern Biotechnology Associates, Inc.

Spectral Red<sup>®</sup> is a PE/CY5 tandem conjugate.

Cy<sup>®</sup> is a registered trademark of GE Healthcare.

Alexa Fluor<sup>®</sup> 488, 647, 700 and Pacific Blue<sup>™</sup> are provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation), and Southern Biotechnology Associates, Inc., and the manufacture, use, sale or import of this product may be subject to one or more U.S. patents, pending applications, and corresponding non-U.S. equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for any other use, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, USA, Tel: (541) 465-8300. Fax: (541) 335-0504.