

## CD45R/B220 Rat Anti-Mouse Monoclonal Antibody (clone RA3-6B2), PE-Cy<sup>®</sup>7 Conjugate

Store at 2°C to 8°C

Pub. No. MAN0008007 Rev. 1.00

Catalog No.	Form	Amount	Excitation	Peak Emission
A15398	PE-Cy <sup>®</sup> 7	0.1 mg	488 nm	767 nm

### Product Description

CD45R (B220 isoform) belongs to the protein tyrosine phosphate family and is a major cell surface glycoprotein expressed on virtually all B cells, and maintained throughout B cell development.<sup>1-5</sup> The epitope recognized by the Rat Anti-Mouse CD45R/B220 Monoclonal Antibody (mAb) is expressed in a restricted manner by B cells, activated T cells, and non-MHC-restricted lytically active lymphokine-activated killer (LAK) cells.<sup>1,6</sup>

### Product Specifications

<b>Clonality:</b>	Monoclonal
<b>Host/Class:</b>	Rat IgG
<b>Reactivity:</b>	Mouse CD45R (B220 isoform)
<b>Immunogen:</b>	Abelson murine leukemia virus-induced pre-B tumor cells 1
<b>Apparent MW:</b>	240 kDa
<b>Sequence Identity:</b>	Mouse
<b>Clone/PAD:</b>	RA3-6B2
<b>Isotype:</b>	IgG <sub>2ak</sub>
<b>Lot:</b>	See product label

### Product Applications

Applications reported for the CD45R/B220 Rat Anti-Mouse mAb include flow cytometry.<sup>7,8</sup>

Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

### Storage and Handling

Store reagents at 2°C to 8°C. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. Cells should be analyzed within 18 hours of staining for best results.

Avoid light exposure with fluorochrome-conjugated antibodies. Use dim light during handling, incubation with cells, and prior to analysis.

### Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on the Certificate of Analysis.

### Storage Buffer

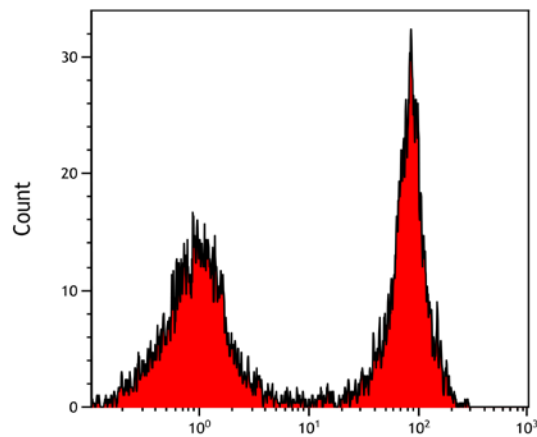
Phosphate buffered saline (PBS) with 0.1% sodium azide.



**CAUTION!** Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## References

1. Coffman, R. L. 1982. *Immunol. Rev.* 69:5.
2. Ballas, Z. K. and W. Rasmussen. 1990. *J. Immunol.* 144:386.
3. Morse, H. C. III, W. F. Davidson, R. A. Yetter, and R. L. Coffman. 1982. *Cell Immunol.* 70:311.
4. Johnson, P., L. Greenbaum, K. Bottomly, and I. S. Trowbridge. 1989. *J. Exp. Med.* 169:1179.
5. Kincade, P. W., L. Grace, W. Takeshi, S. Leslie, and M. P. Scheid. 1981. *J. Immunol.* 127:2262.
6. Watanabe, Y. and T. Akaike. 1994. *Scand. J. Immunol.* 39:419.
7. Hardy, R. R., C. E. Carmack, S. A. Shinton, J. D. Kemp, and K. Hayakawa. 1991. *J. Exp. Med.* 173:1213.
8. Ermak, T.H., P.J. Giannasca, R. Nichols, G.A. Myers, J. Nedrud, R. Weltzin, C.K. Lee, H. Kleanthous, and T.P. Monath. 1998. *J. Exp. Med.* 188(12):2277.



CD45R/B220 Rat Anti-Mouse APC Conjugate

**Figure 1** Immunofluorescent staining of BALB/c splenocytes labelled with CD45R/B220 Rat Anti-Mouse Monoclonal Antibody PE-Cy<sup>®</sup>7 Conjugate (Cat. no. A15398).

BALB/c splenocytes were stained with CD45/B220 Rat Anti-Mouse Monoclonal Antibody PE-Cy<sup>®</sup>7 Conjugate (0.1 µg/10<sup>6</sup> cells). Small lymphocytes were gated and analyzed on a flow cytometer.

## Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Limited Product Warranty

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## Related Products

Product Name	Quantity	Cat. No.
AbC <sup>™</sup> Anti-Mouse Bead Kit	1 kit	A10344
AbC <sup>™</sup> Anti-Rat/Hamster Bead Kit	1 kit	A10389
FIX & PERM <sup>®</sup> Reagents (200 tests)	1 kit	GAS004
<b>LIVE/DEAD<sup>®</sup> Fixable Dead Cell Stain Kits</b>		
Blue (UV excitation)	1 kit (200 assays)	L23105
Violet (405 nm excitation)		L34955
Yellow (405 nm excitation)		L34959
Red (488 nm excitation)		L23102
Near-IR (633/635 nm excitation)		L10119

## Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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