

## RAT anti-MOUSE CD16/32

Publication No. MAN0006739

Rev. 2.00

Store at 2° to 8°C

Catalog No.	Form	Amount	Excitation	Peak Emission
A14717	FITC	0.05 mL (25 µg)	488 nm	519 nm
A14718	APC	0.25 mL (25 µg)	650 nm	660 nm
A14789	PerCP-Cy®5.5	0.125 mL (25 µg)	482 nm	695 nm
A14719	PE-Cy®7	0.25 mL (25 µg)	488 nm	767 nm

### Product Description

The Rat anti-Mouse CD16/32 Monoclonal Antibody (mAb) recognizes a conformational epitope formed by lymphocyte FcγII and FcγIII receptors. The Fcγ receptors (FcγR) recognize the Fc portion of IgG, presented as immune complexes or free antibody. The Fc type II receptor is expressed on a wide variety of cells including B cells, hematopoietic cells, monocyte/macrophages, neutrophils, platelets, Langerhans cells, eosinophils, basophils, trophoblasts, and endothelial cells of the placenta. The Fcγ type III receptors are expressed on macrophages, NK cells, and neutrophils. Both types of receptors can be constitutively expressed on the same cell in varying ratios, and can be modulated cytokines and lymphokines. The Rat anti-Mouse CD16/32 mAb can identify FcγR<sup>+</sup> cells, and block Fc receptor binding.

### Product Specifications

<b>Clonality:</b>	Monoclonal
<b>Host/Class:</b>	Rat IgG
<b>Reactivity:</b>	Mouse CD16/32
<b>Gene ID:</b>	14131
<b>Sequence Identity:</b>	Mouse
<b>Clone/PAD:</b>	93
<b>Isotype:</b>	IgG <sub>2a</sub>
<b>Lot:</b>	See product label

### Product Applications

Applications reported for the Rat anti-Mouse CD16/32 mAb include flow cytometry, and blocking Fcγ receptors.

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° 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 product label.

### Storage Buffer

Phosphate buffered saline (PBS) with 0.1% sodium azide, and a non-BSA stabilizing agent. FITC conjugates contain PBS with 0.1% sodium azide. PerCP-Cy®5.5 conjugates contain an aqueous buffer with 0.09% sodium azide, and may contain carrier protein/stabilizer.

**Caution:** Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

**For research use only. Not for human or animal therapeutic or diagnostic use.**

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## Product Documentation

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

## Related Products

Product Name	Quantity	Catalog no.
AbC™ Anti-Mouse Bead Kit	1 kit	A10344
AbC™ anti-Rat/Hamster Bead Kit	1 kit	A10389
Protein A Agarose	5 mL	15918-014
Recombinant Protein G (rProtein G) Agarose	5 mL	15920-010

### Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

## Limited Product Warranty

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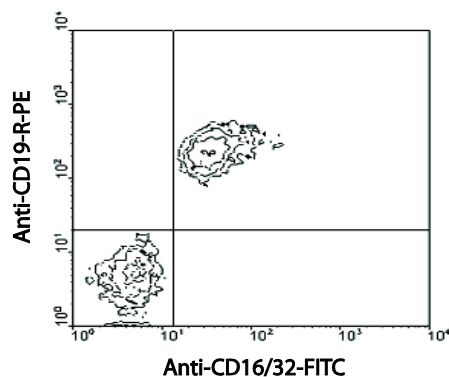
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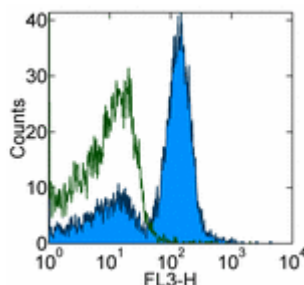
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**Figure 1** Two-color analysis of CD16/32 expression on mouse splenocytes.

BALB/c spleen cells were double-stained with Rat anti-Mouse CD16/32-FITC Monoclonal Antibody (Cat. no. A14717) and a rat anti-mouse CD19-R-PE antibody. Lymphocytes were gated and analyzed on a FACScan™ flow cytometer (BDIS, San Jose, CA).



**Figure 2** CD16/32 expression on mouse splenocytes.

Staining of BALB/c splenocytes with 0.06 µg of a rat IgG2a K-PerCP-Cy®5.5 isotype control (open histogram) or 0.06 µg of Rat anti-Mouse CD16/32-PerCP-Cy®5.5 Monoclonal Antibody (Cat. no. A14789) (filled histogram). Total viable cells were used for analysis.

**Note:** All flow cytometric data shown may not necessarily have been generated using the enclosed lot of reagent. For this reason, and due to differences in flow cytometers and cytometer settings, results may vary from those illustrated above. It is suggested that investigators titrate reagents to determine optimal conditions for use in their systems.

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