

RAT anti-MOUSE CD45

Publication Part No. L11510

MAN0005147

Rev. 2.00

Store at 2° to 8°C

Catalog No.	Form	Amount	Excitation	Peak Emission	Matching Isotype Control
MCD4500	Purified	200 µg	—	—	Rat IgG _{2b} Purified (Cat. no. R2b00)
MCD4528	Pacific Blue™	1.0 mL	405 nm	455 nm	Rat IgG _{2b} Pacific Blue™ (Cat. no. R2b28)
MCD4501	FITC	1.0 mL	488 nm	519 nm	Rat IgG _{2b} FITC (Cat. no. R2b01)
MCD4530	Pacific Orange™	1.0 mL	405 nm	551 nm	Rat IgG _{2b} Pacific Orange™ (Cat. no. R2b30)
MCD4504	R-PE	0.5 mL	496 nm	578 nm	Rat IgG _{2b} R-PE (Cat. no. R2b04)
MCD4517	PE-TR†	0.5 mL	488 nm	615 nm	Rat IgG _{2b} PE-TR (Cat. no. R2b17)
MCD4505	APC	0.5 mL	650 nm	660 nm	Rat IgG _{2b} APC (Cat. no. R2b05)
A14792	PerCP-Cy®5.5	0.125 mL (25 µg)	482 nm	695 nm	—

† TR, Texas Red®

Product Description

The Rat anti-Mouse CD45 Monoclonal Antibody (mAb) recognizes all isoforms of the CD45 antigen, a transmembrane tyrosine phosphatase involved in the regulation of signaling through B and T cell antigen receptors^{1,2}. CD45 is found on all leukocytes and cells of hematopoietic origin, but not mature erythrocytes.

Product Specifications

Clonality:	Monoclonal
Host/Class:	Rat IgG
Reactivity:	Mouse CD45
Alternate Names:	LCA, Ly-5
Sequence Identity:	Mouse
Clone/PAD:	30-F11
Isotype:	IgG _{2b}
Lot:	See product label

Product Applications

Applications reported for the Rat anti-Mouse CD45 mAb include flow cytometry, immunohistochemistry (zinc- and formalin-fixed, paraffin embedded), and immunohistochemistry (acetone-fixed, frozen).

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

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

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.

Storage Buffer

Phosphate Buffered Saline (PBS) with 0.1% sodium azide. Conjugated products are also formulated with BSA and may contain sucrose as an additional stabilizing agent. 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.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

References

1. Ledbetter, J. A. and L. A. Herzenberg. 1979. *Immunol. Rev.* 47: 63–90.
2. van Ewijk, W., P. L. van Soest and G. J. van den Engh. 1981. *J. Immunol.* 127: 2594–2604.

Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit 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		<i>In vitro</i> 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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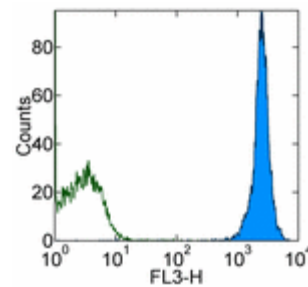


Figure 1 CD45 expression on mouse splenocytes.

Staining of C57BL/6 splenocytes with staining buffer (autofluorescence) (open histogram) or 0.06 µg of Rat anti-Mouse CD45-PerCP-Cy[®]5.5 Monoclonal Antibody (Cat. no. A14792) (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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