

MOUSE anti-HUMAN CD45

Publication Part No. L11538

MAN0006784

Rev. 2.00

Store at 2° to 8°C

Catalog No.	Form	Amount	Excitation	Peak Emission	Matching Isotype Control
MHCD4526	Alexa Fluor® 405	[0.5 mL]	402 nm	421 nm	Mouse IgG1 Alexa Fluor 405 [Cat. no. MG126]
MHCD4528	Pacific Blue™	[0.5 mL]	405 nm	455 nm	Mouse IgG1 Pacific Blue™ [Cat. no. MG126]
MHCD4521	Alexa Fluor® 647	[0.5 mL]	650 nm	668 nm	Mouse IgG1 Alexa Fluor® 647 [Cat. no. MG121]
A14796	PerCP-Cy®5.5	[0.125 mL]	482 nm	695 nm	—

Product Description

The Mouse anti-Human CD45 Monoclonal Antibody (mAb) recognizes the CD45 antigen¹, which is expressed on all cells of hematopoietic origin with the exception of platelets and red blood cells and their immediate precursors. CD45 is considered to be a pan leukocyte marker.

Product Specifications

Clonality:	Monoclonal
Host/Class:	Mouse IgG
Reactivity:	Human CD45
Alternate Names:	LCA (Leukocyte Common Antigen)
Sequence Identity:	Human
Clone/PAD:	HI30
Isotype:	IgG ₁
Lot:	See product label

Product Applications

Applications reported for the Mouse anti-Human CD45 mAb include flow cytometry.

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.

References

1. Knapp, W., B. Dörken, W. R. Gilks, E. P. Rieber, R. E. Schmidt, H. Stein, and A. E. G. Kr. von dem Borne eds. 1989. Leukocyte Typing IV. Oxford University Press Inc., New York.

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

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		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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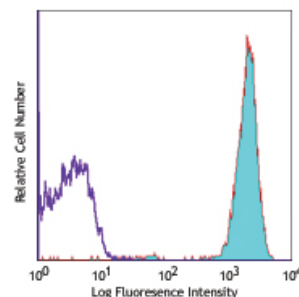


Figure 1 CD45 expression on human peripheral blood lymphocytes.

Human peripheral blood lymphocytes stained with Mouse anti-Human CD45-Alexa Fluor® 647 Monoclonal Antibody (Cat. no. MHCD4521). The negative control profile represents unstained cells.

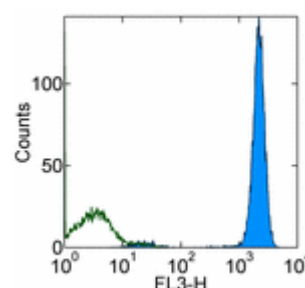


Figure 2 CD45 expression on human peripheral blood cells.

Staining of normal human peripheral blood cells with staining buffer (autofluorescence) (open histogram) or Mouse anti-Human CD45-PerCP-Cy®5.5 Monoclonal Antibody (Cat. no. A14796) (filled histogram). Cells in the lymphocyte gate 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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