

Monoclonal Antibodies to the Human CD45 Antigen

Catalog Numbers MHCD4515, MHCD4530, MHCD4530TR, MHCD4520, MHCD4501, MHCD4501-4, MHCD4504, MHCD4504-4, MHCD4517, MHCD4522, MHCD4506, MHCD4506-5, MHCD4531, MHCD4518, MHCD4512, MHCD4505, MHCD4505-4, MHCD4527, MHCD4529

Pub. No. MAN0003917 Rev. B.0



WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from thermofisher.com/support.

Product Description

Mouse monoclonal antibody to the human CD45 antigen

- Clone: HI30
- Isotype: Mouse IgG1
- Lot no./expiration: See label.
- Buffer: Phosphate buffered saline (PBS)
- Stabilizer: Highly purified BSA
- Preservative: 0.1% sodium azide

Contents and Storage

Catalog numbers that appear as links open the web pages for those products.

To see a complete list of antibody offerings and for more information on RUO formats of this clone, please visit <http://thermofisher.com>.

Table 1 Monoclonal Antibodies to the Human CD45 Antigen

Component	Catalog No.	Amount	Tests	Excitation	Peak Emission	Storage
Biotin	MHCD4515	0.5 mL	100 min	N/A	N/A	Store reagents at 2–8°C. Avoid light exposure. Use dim light during handling, incubating with cells, and before analyzing. Analyze cells within 18 hours of staining. If diluting the reagent, dilute only the quantity to be used within 1 week.
Pacific Orange™	MHCD4530	0.5 mL	100 min	405 nm	551 nm	
Pacific Orange™	MHCD4530TR	0.125 mL	25 min	405 nm	551 nm	
Alexa Fluor™ 488	MHCD4520	0.5 mL	100 min	488 nm	519 nm	
FITC	MHCD4501	0.5 mL	100 min	488 nm	525 nm	
FITC	MHCD4501-4	2.0 mL	400 min	488 nm	525 nm	
R-PE	MHCD4504	0.5 mL	100 min	488 nm	575 nm	
R-PE	MHCD4504-4	2.0 mL	400 min	488 nm	575 nm	
PE-TR (Texas Red™ conjugates)	MHCD4517	0.5 mL	100 min	488 nm	615 nm	
PE-Alexa Fluor™ 610	MHCD4522	0.5 mL	100 min	488 nm	628 nm	
TC (TRI-COLOR™, PE-Cy® 5) ^[1,2]	MHCD4506	0.5 mL	100 min	488 nm	670 nm	
TC	MHCD4506-5	2.5 mL	500 min	488 nm	670 nm	
PerCP	MHCD4531	0.5 mL	100 min	488 nm	678 nm	
PE-Cy® 5.5	MHCD4518	0.5 mL	100 min	488 nm	694 nm	
PE-Cy® 7	MHCD4512	0.5 mL	100 min	488 nm	767 nm	
APC	MHCD4505	0.5 mL	100 min	600-650 nm	660 nm	
APC	MHCD4505-4	2.0 mL	400 min	600-650 nm	660 nm	
APC-Alexa Fluor™ 750	MHCD4527	0.5 mL	100 min	600-650 nm	775 nm	
Alexa Fluor™ 700	MHCD4529	0.5 mL	100 min	630-702 nm	723 nm	

^[1] The efficiency of energy transfer in tandem dyes can be significantly decreased by exposure to visible light. We recommend that longer wavelength fluorochrome conjugates, eg. PE-Cy® 7 and Alexa Fluor™ 700, be protected from light during staining and while awaiting analysis.

^[2] Cy® is a trademark of GE Healthcare.

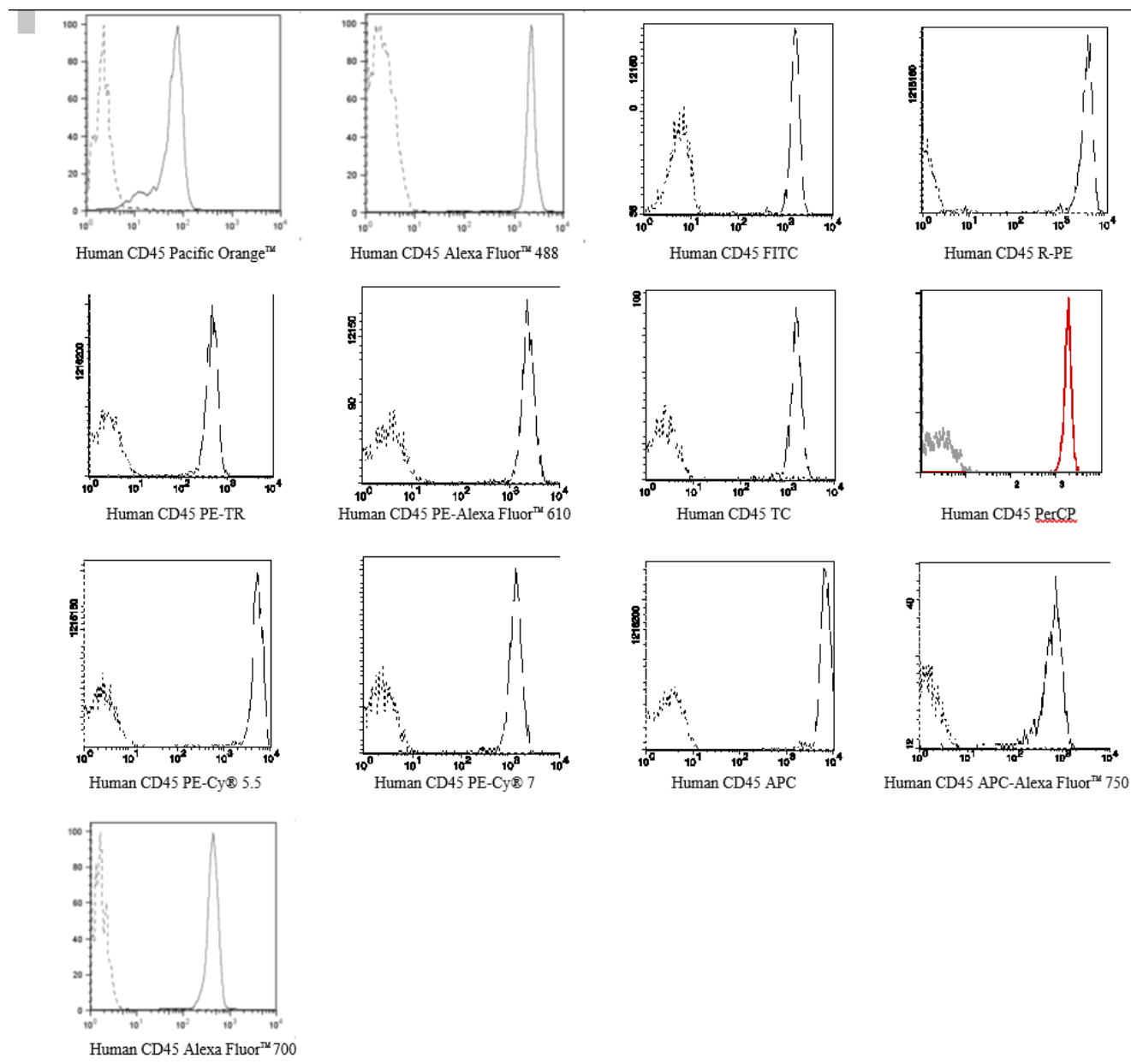
Product Characterization

Property	Property Information
Antigen Specificity	This antibody recognizes the CD45 antigen, also known as Leukocyte Common Antigen (LCA). CD45 is expressed on all cells of hematopoietic origin with the exception of platelets, red blood cells, and their immediate precursors. CD45 is considered a pan leukocyte marker.
Leukocyte Workshop Status	Leukocyte Typing IV
Product Use	Each lot is tested by flow cytometry using human peripheral blood leukocytes (PBL). Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

Log fluorescence intensity profiles of human peripheral blood lymphocytes

Analyzed on a FACSCalibur™, FACScan™, FACS Vantage™, or BD™ LSR II flow cytometer.

Negative control profiles represent unstained cells.



Note: 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.



Life Technologies Corporation | 7335 Executive Way | Frederick, Maryland 21704 USA

For descriptions of symbols on product labels or product documents, go to thermofisher.com/symbols-definition.

Revision history: Pub. No. MAN0003917 B.0

Revision	Date	Description
B.0	26 July 2023	Regulatory statement replaced and emission/excitation data updated.
A.0	3 April 2023	New document for product insert.

The information in this guide is subject to change without notice.

DISCLAIMER: TO THE EXTENT ALLOWED BY LAW, THERMO FISHER SCIENTIFIC INC. AND/OR ITS AFFILIATE(S) WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, MULTIPLE, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THIS DOCUMENT, INCLUDING YOUR USE OF IT.

Important Licensing Information: These products may be covered by one or more Limited Use Label Licenses. By use of these products, you accept the terms and conditions of all applicable Limited Use Label Licenses.

©2023 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified.