Monoclonal Antibodies to the Human CD14 Antigen

Catalog Numbers MHCD1400, MHCD1415, MHCD1428, MHCD1430, MHCD1430TR, MHCD1401, MHCD14014, MHCD1404, MHCD14044, MHCD1417, MHCD1406, MHCD1431, MHCD1418, MHCD1405, MHCD1427, MHCD1429

Pub. No. MAN0003916 Rev. C

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 C14 antigen

- Clone: TüK4
- Isotype: Mouse IgG2a
- Lot no./expiration: See label.
- Buffer: Phosphate buffered saline (PBS)
- Stabilizer: Highly purified BSA (conjugated products only)
- 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, please visit **http://thermofisher.com**.

Table 1 Monoclonal Antibodies to the Human CD14 Antigen

Component	Catalog No.	Amount	Tests	Excitation	Peak Emission	Storage
Purified	MHCD1400	100 µg	N/A	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 one week.
Biotin	MHCD1415	0.5 mL	100 min	N/A	N/A	
Pacific Blue™	MHCD1428	0.5 mL	100 min	405 nm	455 nm	
Pacific Orange™	MHCD1430	0.5 mL	100 min	405 nm	551 nm	
Pacific Orange™	MHCD1430TR	0.125 mL	25 min	405 nm	551 nm	
FITC	MHCD1401	0.5 mL	100 min	488 nm	525 nm	
FITC	MHCD14014	2.0 mL	400 min	488 nm	525 nm	
R-PE	MHCD1404	0.5 mL	100 min	488 nm	575 nm	
R-PE	MHCD14044	2.0 mL	400 min	488 nm	575 nm	
PE-TR (Texas Red™)	MHCD1417	0.5 mL	100 min	488 nm	615 nm	
TC (TRI-COLOR™, PE-Cy® 5.5)[1]	MHCD1406	0.5 mL	100 min	488 nm	670 nm	
PerCP	MHCD1431	0.5 mL	100 min	488 nm	678 nm	
PE- Cy® 5.5	MHCD1418	0.5 mL	100 min	488 nm	694 nm	
APC	MHCD1405	0.5 mL	100 min	600-650 nm	660 nm	
APC-Alexa Fluor™ 750	MHCD1427	0.5 mL	100 min	600-650 nm	775 nm	
Alexa Fluor™ 700[2]	MHCD1429	0.5 mL	100 min	630-702 nm	723 nm	

[1] Cy®is a trademark of GE Healthcare.

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

Product Characterization

Property	Property Information
Antigen Specificity	This antibody recognizes the CD14 antigen. This molecule is a high affinity, GPI-linked, receptor for lipopolysaccharide (LPS) and LPS binding protein (LPD). CD14 is expressed at high levels on peripheral blood monocytes. This receptor is also expressed on macrophages, dendritic cells, and some Langerhans cells.
Leukocyte Workshop Status	Leukocyte Typing IV and V
Product Use	Each lot is tested by ELISA or flow cytometry using human peripheral blood leukocytes (PBLs). Because results may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

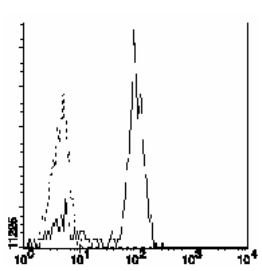
Analyte Specific Reagent. Analytical and performance characteristics are not established.

ThermoFisher SCIENTIFIC

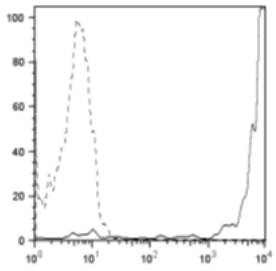
Log fluorescence intensity profiles of human peripheral blood lymphocytes

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

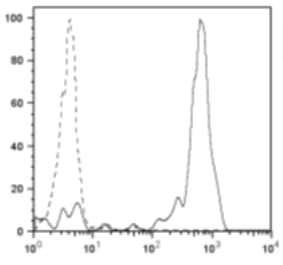
Negative control profiles represent cells incubated with an isotype control anitbody.



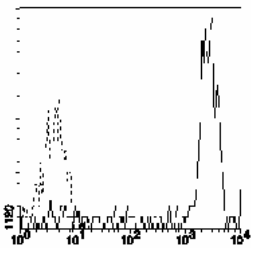
Human CD14 FITC



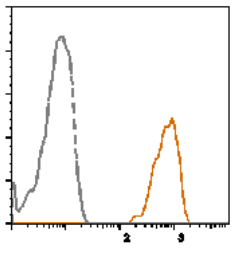
Human CD14 R-PE



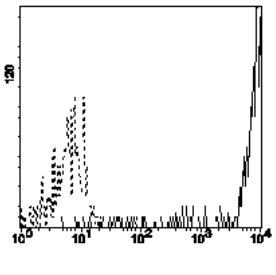
Human CD14 PE-TR



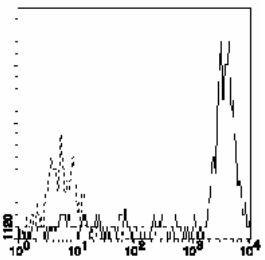
Human CD14 TC



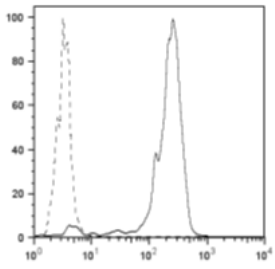
Human CD14 PerCP



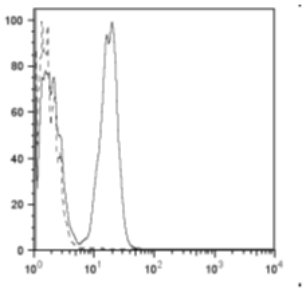
Human CD14 PE-Cy® 5.5



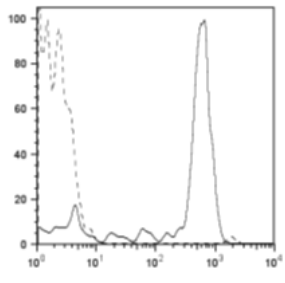
Human CD14 APC



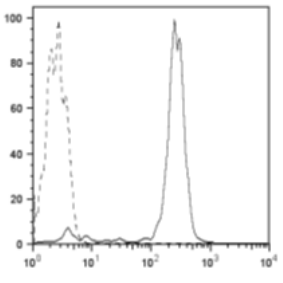
Human CD14 Pacific Blue™



Human CD14 Pacific Orange™



Human CD14 APC-Alexa Fluor™ 750



Human CD14 Alexa Fluor™ 700

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.

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

Revision history: Pub. No. MAN0003916 C

Revision	Date	Description
C	3 March 2025	Changed catalog numbers, MHCD1401-4 to MHCD14014 and MCD1404-4 to MCD14044 in the bookmap and contents/storage table. Version numbering was changed to new format and reset to C in conformance with internal document control procedures.
B.0	26 July 2023	Regulatory statement replaced and emission/excitation data updated.
A.0	3 April 2023	New document for product insert.