Monoclonal Antibody to the Human CD3 Antigen

Catalog Numbers MHCD0300, MHCD0300-4, MHCD0328, MHCD0328TR, MHCD0320, MHCD0317, MHCD0322, MHCD0331, MHCD0318, MHCD0324, MHCD0312, MHCD0305, MHCD0319, and MHCD0327

Pub. No. MAN0004773 Rev. C00

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 CD3 antigen

- **Clone**: S4.1 (also known as 7D6)
- **Isotype**: Mouse IgG2a
- **Lot No**: See label
- **Expiration**: See label
- **Buffer**: Phosphate buffered saline (PBS)
- **Stabilizer**: Highly purified BSA (for conjugated products only)
- **Preservative**: 0.1% sodium azide

Product characterization

Property	Property information
Antigen specificity	This antibody recognizes the CD3 antigen. CD3 is comprised of 5 individual proteins that are responsible for T cell receptor expression and signaling. CD3 is expressed on thymocytes, T cells, and some NK cells.
Leukocyte workshop status	Leukocyte Typing V

Product use

Each lot is tested by flow cytometry using human peripheral blood leukocytes (PBL). As 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 2–8°C.
- Avoid light exposure with fluorochrome-conjugated antibodies.
- Use dim light during handling, incubation with cells and before analysis.
- Analyze cells within 18 hours of staining.
- Dilute only the amount of reagent needed within a week if diluting the reagent.

Contents

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 IVD (FITC, R-PE and TRI-COLOR®) or RUO formats of this clone, go to https://www.thermofisher.com/in/en/home/life-science/antibodies.html.

Table 1 Monoclonal Antibodies to the Human CD3 Antigen

Cat. No.	Component	Amount	Tests (minimum)	Excitation (nm)	Peak Emission (nm)
MHCD0300	Purified	100 µg	N/A	N/A	N/A
MHCD0300-4	Purified	400 µg			
MHCD0328	Pacific Blue™	0.5 mL	100	405	455
MHCD0328TR	Pacific Blue™	0.125 mL	25	405	455
MHCD0320	Alexa Fluor™ 488	0.5 mL	100	488	519
MHCD0317	PE-TR[1]	0.5 mL	100	488	615
MHCD0322	PE-Alexa Fluor™610	0.5 mL	100	488	628
MHCD0331	PerCP[2]	0.5 mL	100	488	678
MHCD0318	PE-Cy® 5.5	0.5 mL	100	488	694
MHCD0324	PE-Alexa Fluor™ 700	0.5 mL	100	488	723
MHCD0312	PE-Cy® 7	0.5 mL	100	488	767
MHCD0305	APC	0.5 mL	100	600-650	660
MHCD0319	APC-Cy® 5.5	0.5 mL	100	600-650	694
MHCD0327	APC-Alexa Fluor™ 750	0.5 mL	100	600-650	775

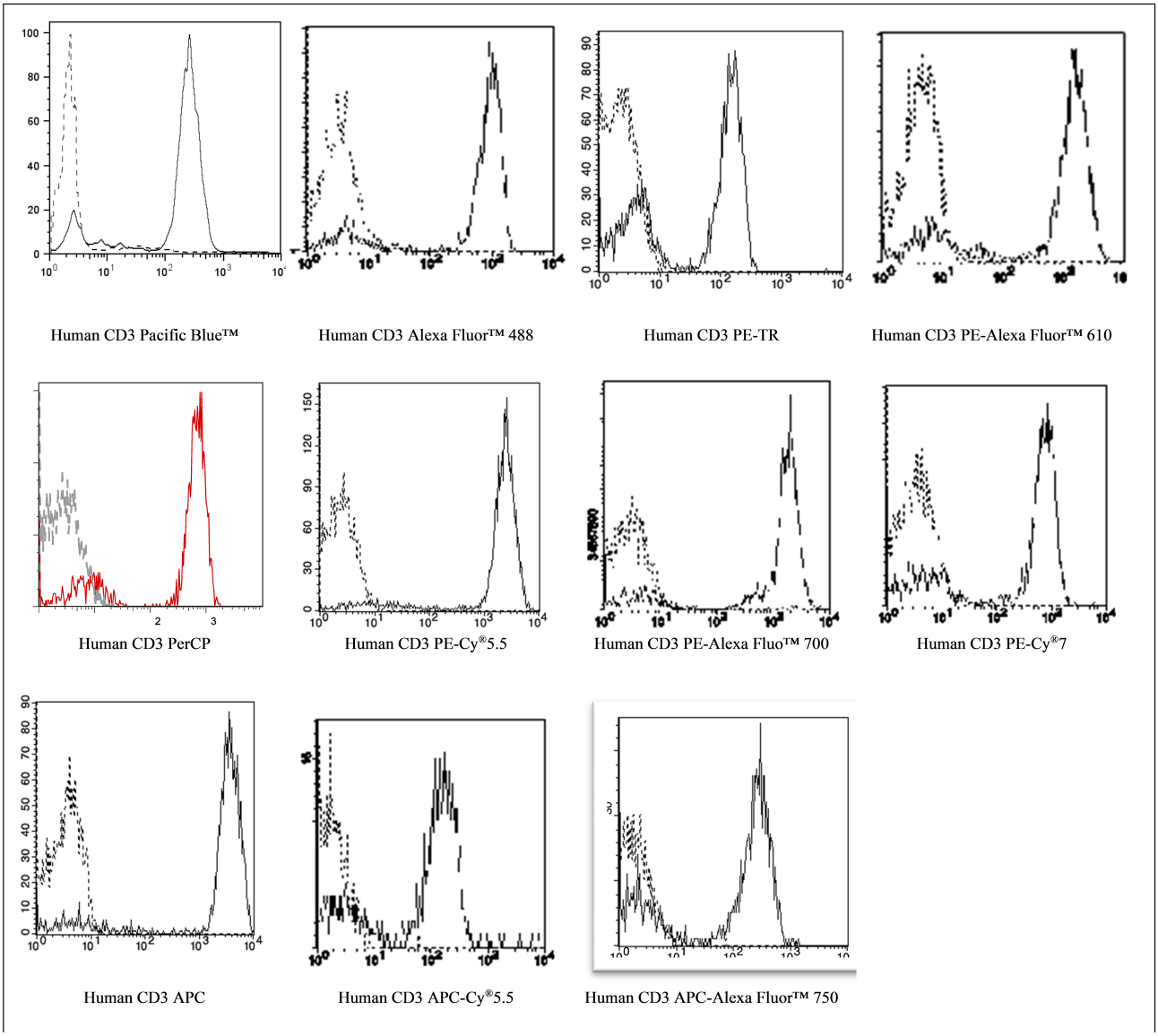
[1] Texas Red™

[2] PerCP contained in this product is protected by patents owned by Becton, Dickinson & Company (European patent 0314406, or Japanese Patent JP1888759). This product will not be sold or shipped to customers in France, Germany, Italy, United Kingdom or Japan until the pertinent patents are no longer in effect (October 21, 2008).

Note: The efficiency of energy transfer in tandem dyes can be significantly decreased by exposure to light. We recommend that longer wavelength fluorochrome conjugates (for example, PE-Cy® 7 and PE-Alexa Fluor™ 700) are to be protected from light during staining and while awaiting analysis (for example, covered with aluminum foil).

Note: The Texas Red™, Alexa Fluor™, and Pacific Blue™ dye conjugates in this product are sold under license from Molecular Probes, Inc., for research use only or as analyte specific reagents, except for use in combination with microarrays or high content screening, and are covered by pending and issued patents.

Log fluorescence intensity profiles of human peripheral blood lymphocytes



Analyzed on a FACSCalibur™, FACScan™, or FACS Vantage™ flow cytometer, and analyzed using CellQuest™ software, BD Biosciences, San Jose, CA.

Negative control profiles represent unstained cells or cells incubated with an isotype control antibody.

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.

Limited product warranty

Life Technologies Corporation and its affiliates warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale at **www.thermofisher.com/us/en/home/global/terms-and-conditions.html**. If you have questions, contact Life Technologies at **www.thermofisher.com/support**.

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

Revision history: Pub. No. MAN0004773 C00

Revision	Date	Description
C00	16 April 2024	The trademark symbols were updated and the content was moved into the current document template.