Monoclonal Antibody to the Human CD19 Antigen

Catalog Numbers MHCD1920, MHCD1901, MHCD1901-4, MHCD1917, MHCD1922, MHCD1931, MHCD1918, MHCD1924, MHCD1912, MHCD1905, MHCD1927, MHCD1928, MHCD1921, and MHCD1929

Pub. No. MAN0005010 Rev. D00

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 CD19 antigen

- **Clone**: SJ25-C1
- **Isotype**: Mouse IgG1
- **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 CD19 B cell differentiation antigen.This antigen is expressed on B cells throughout their development but is not expressed on terminally differentiated plasma cells. CD19 serves as an adapter molecule involved in B cell signaling.
Leukocyte workshop status	Leukocyte Typing II & III

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 (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 CD19 Antigen

Cat. No.	Component	Amount	Tests (minimum)	Excitation (nm)	Peak Emission (nm)
MHCD1920	Alexa Fluor™ 488	0.5 mL	100	488	519
MHCD1901	FITC	0.5 mL	100	488	525
MHCD1901-4	FITC	2 mL	400		
MHCD1917	PE-TR[1]	0.5 mL	100	488	615
MHCD1922	PE-Alexa Fluor™610	0.5 mL	100	488	628
MHCD1931	PerCP[2]	0.5 mL	100	488	678
MHCD1918	PE-Cy® 5.5	0.5 mL	100	488	694
MHCD1924	PE-Alexa Fluor™ 700	0.5 mL	100	488	723
MHCD1912	PE-Cy® 7	0.5 mL	100	488	767
MHCD1905	APC	0.5 mL	100	600-650	660
MHCD1927	APC-Alexa Fluor™ 750	0.5 mL	100	600-650	775
MHCD1928	Pacific Blue™	0.5 mL	100	405	455
MHCD1921	Alexa Fluor™ 647	0.5 mL	100	600-650	668
MHCD1929	Alexa Fluor™ 700	0.5 mL	100	630-702	723

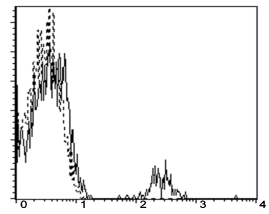
[1] Texas Red™

[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).

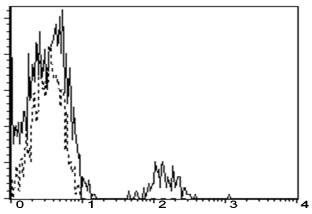
Note: The efficiency of energy transfer in tandem dyes can be significantly decreased by exposure to light. We recommend that longer wavelength fluorochrome conjugates (for example, PE-Cy® 7 and PE-Alexa Fluor™ 700) are to be protected from light during staining and while awaiting analysis (for example,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

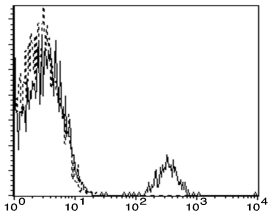
Log fluorescence intensity profiles of human peripheral blood lymphocytes



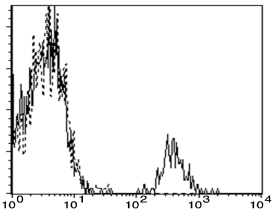
Human CD19 Alexa Fluor™ 488



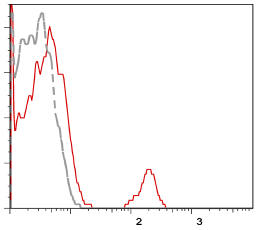
Human CD19 FITC



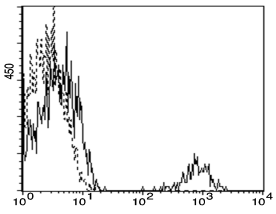
Human CD19 PE-TR



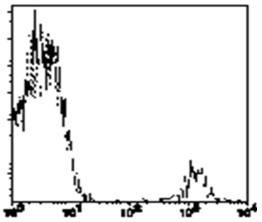
Human CD19 PE-Alexa Fluor™ 610



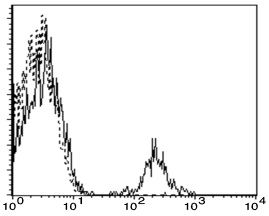
Human CD19 PerCP



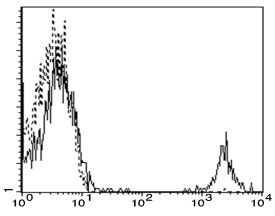
Human CD19 PE-Cy®5.5



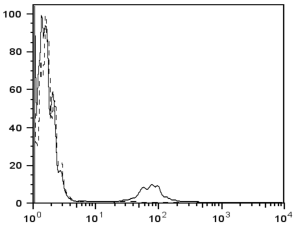
Human CD19 PE-Alexa Fluor™ 700



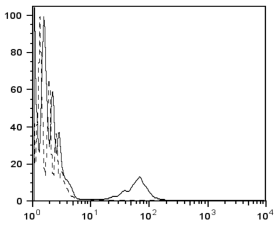
Human CD19 PE-Cy®7



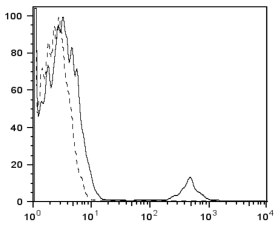
Human CD19 APC



Human CD 19 APC Alexa Fluor™ 750



Human CD 19 Alexa Fluor™ 700



Human CD19 Alexa Fluor™ 647

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

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.

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. MAN0005010 D00

Revision	Date	Description
D00	16 April 2024	The trademark symbols were updated and the content was moved into the current document template.

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