

CD11c Monoclonal Antibody (3.9), Super Bright™ 780, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	3.9
Conjugate	Super Bright™ 780
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744902

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	5 Publications

Product Specific Information

Description: The 3.9 monoclonal antibody reacts with human CD11c, the 150 kDa integrin alpha X chain. CD11c non-covalently associates with beta2 integrin to form the CD11c/CD18 heterodimer. This complex is expressed on monocytes, granulocytes, macrophages, NK, dendritic cells and subset of T and B lymphocytes. CD11c/CD18 binds to CD54, iC3b and fibrinogen and plays a role in leukocyte adhesive interactions.

Applications Reported: This 3.9 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 3.9 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Super Bright 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in the

violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

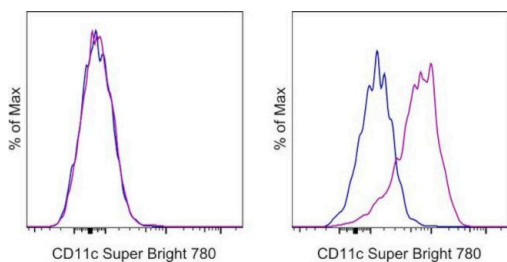
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; **Emission:** 780 nm; **Laser:** Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD11c Monoclonal Antibody (3.9), Super Bright™ 780, eBioscience™



CD11c Antibody (78-0116-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control, FITC (Product # 78-4714-82) (blue histogram) or CD11c Monoclonal Antibody, Super Bright 780 (purple histogram). Cells in the lymphocyte gate (left) and monocyte gate (right) were used for analysis.

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Flow Cytometry (5)

Molecular microbiology

Aluminum hydroxide adjuvant diverts the uptake and trafficking of genetically detoxified pertussis toxin to lysosomes in macrophages.

"Published figure using CD11c monoclonal antibody (Product # 78-0116-42) in Flow Cytometry"

Authors: Jaldin-Fincati J, Moussaoui S, Gimenez MC, Ho CY, Lancaster CE, Botelho R, Ausar F, Brookes R, Terebiznik M

Year
2022

Journal of clinical laboratory analysis

Upregulation of CD3 and L-selectin in antigen-specific cytotoxic T lymphocytes by eliminating myeloid-derived suppressor cells with doxorubicin to improve killing efficacy of neuroblastoma cells in vitro.

"Published figure using CD11c monoclonal antibody (Product # 78-0116-42) in Flow Cytometry"

Authors: Xu W, Li S, Li M, Zhou H, Yang X

Year
2022

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More applications with references on thermofisher.com

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