CD185 (CXCR5) Monoclonal Antibody (MU5UBEE), Super Bright™ 600, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Non-human primate, Rhesus monkey
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MU5UBEE
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Immunogen	N-terminal extracellular domain
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_2724065

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	6 Publications

Product Specific Information

Description: The MU5UBEE monoclonal antibody reacts with human and non-human primate CD185. CD185, which is also known as C-X-C chemokine receptor 5 (CXCR5) and Burkitt lymphoma receptor 1 (BLR1), is a seven transmembrane G protein-coupled receptor originally identified in Burkitt's lymphoma. In peripheral blood, CD185 is expressed on B cells, CD4+ T cells (but not Th1 or Th2 cells), as well as on a subpopulation of memory (CD45RO+) T cells. Circulating CD185+ T cells are in a resting state and migrate to the lymph nodes due to expression of CCR7 and CD62L. In tonsil, CD185 is expressed on nearly all CD4+ cells together with CD45RO and activation markers such as CD69 and ICOS. Tonsillar CD185+ cells have been shown to induce antibody production when co-cultured with B cells, thus supporting their role in providing help to B cells. Furthermore, this chemokine receptor plays a critical role in lymphocyte trafficking, in particular T cell migration into the B cell follicles of germinal centers in response to CXCL13, making CD185 an established marker of follicular helper T cells.

Applications Reported: This MU5UBEE antibody has been reported for use in flow cytometric analysis.

Applications Tested: This MU5UBEE 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 10^5 to 10^8 cells /test.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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.

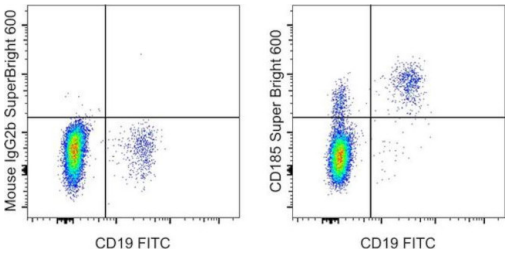
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL 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: 600 nm; Laser: Violet Laser

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

Product Images For CD185 (CXCR5) Monoclonal Antibody (MU5UBEE), Super Bright™ 600, eBioscience™



CD185 (CXCR5) Antibody (63-9185-42) in Flow
Normal human peripheral blood cells were stained with CD19 Monoclonal Antibody, FITC (Product # 11-0199-42) and Mouse IgG2b kappa Isotype Control, Super Bright 600 (Product # 63-4732-82) (left) or CD185 (CXCR5) Monoclonal Antibody, Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

7 References

Immunohistochemistry (1)

iScience

NK-B cell cross talk induces CXCR5 expression on natural killer cells.

"Published figure using CD185 (CXCR5) monoclonal antibody (Product # 63-9185-42) in Flow Cytometry"

Authors: Rascle P,Jacquelin B,Petitdemange C,Contreras V,Planchais C,Lazzerini M,Dereuddre-Bosquet N,Le Grand R, Mouquet H,Huot N,Müller-Trutwin M

Year
2021

Flow Cytometry (6)

Frontiers in immunology

***In Situ* Characterization of Human Lymphoid Tissue Immune Cells by Multispectral Confocal Imaging and Quantitative Image Analysis; Implications for HIV Reservoir Characterization.**

"Published figure using CD185 (CXCR5) monoclonal antibody (Product # 63-9185-42) in Flow Cytometry"

Authors: Moysi E,Del Rio Estrada PM,Torres-Ruiz F,Reyes-Terán G,Koup RA,Petrovas C

Year
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iScience

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Year
2021

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More applications with references on thermofisher.com

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