

# CD185 (CXCR5) Monoclonal Antibody (MU5UBEE), Super Bright™ 702, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Non-human primate, Rhesus monkey
Published Species	Human, Rhesus monkey
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MU5UBEE
Conjugate	Super Bright™ 702
Excitation/Emission Max	413/702 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_2717183

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	8 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  $\mu\text{L}$  (0.5  $\mu\text{g}$ ) per test. A test is defined as the amount ( $\mu\text{g}$ ) of antibody that will stain a cell sample in a final volume of 100  $\mu\text{L}$ . Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

Super Bright 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 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.

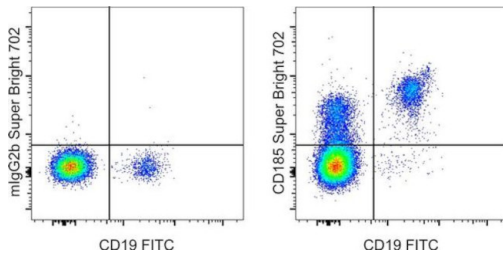
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu\text{L}$  of cell sample + 100  $\mu\text{L}$  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: 702 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™ 702, eBioscience™



### CD185 (CXCR5) Antibody (67-9185-42) in Flow

Normal human peripheral blood cells were stained with CD19 Monoclonal Antibody, FITC (Product # 11-0199) and Mouse IgG2b kappa Isotype Control, Super Bright 702 (Product # 67-4732) (left) or CD185 (CXCR5) Monoclonal Antibody, Super Bright 702 (Product # 67-9185) (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## 9 References

### Flow Cytometry (8)

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 # 67-9185-42) in Flow Cytometry"

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

Year  
2021

iScience

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

"Published figure using CD185 (CXCR5) monoclonal antibody (Product # 67-9185-42) in Immunohistochemistry"

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

Year  
2021

[View more Flow references on thermofisher.com](#)

### Immunohistochemistry (1)

iScience

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

"Published figure using CD185 (CXCR5) monoclonal antibody (Product # 67-9185-42) in Immunohistochemistry"

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

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