

# CD185 (CXCR5) Monoclonal Antibody (MU5UBEE), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Non-human primate, Rhesus monkey
Published Species	Artificial Control, Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MU5UBEE
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2572807

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5µL (0.125 µg)/test	5 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.

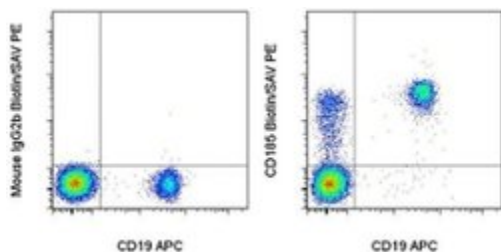
The MU5UBEE monoclonal antibody also crossreacts with Rhesus macaque.

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

Applications Tested: This MU5UBEE antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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<sup>5</sup> to 10<sup>8</sup> cells/test.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD185 (CXCR5) Monoclonal Antibody (MU5UBEE), Biotin, eBioscience™



### CD185 (CXCR5) Antibody (13-9185-82) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD19 APC (Product # 17-0199-42) and Mouse IgG2b K Isotype Control Biotin (Product # 13-4732-85) (left) or Anti-Human CD185 (CXCR5) Biotin (right) followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

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## 5 References

### Flow Cytometry (5)

Molecular therapy. Methods & clinical development

#### Rapid Transduction and Expansion of Transduced T Cells with Maintenance of Central Memory Populations.

"Published figure using CD185 (CXCR5) monoclonal antibody (Product # 13-9185-82) in Flow Cytometry"

Authors: Pampusch MS, Haran KP, Hart GT, Rakasz EG, Rendahl AK, Berger EA, Connick E, Skinner PJ

**Species**

Artificial Control

**Dilution**

Not Cited

**Year**

2020

Nature medicine

#### A transcriptionally and functionally distinct PD-1<sup>+</sup> CD8<sup>+</sup> T cell pool with predictive potential in non-small-cell lung cancer treated with PD-1 blockade.

Authors: Thommen DS, Koelzer VH, Herzog P, Roller A, Trefny M, Dimeloe S, Kiialainen A, Hanhart J, Schill C, Hess C, Savic Prince S, Wiese M, Lardinois D, Ho PC, Klein C, Karanikas V, Mertz KD, Schumacher TN, Zippelius A

**Species**

Human

**Dilution**

Not Cited

**Year**

2018

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