

# CD185 (CXCR5) Monoclonal Antibody (SPRCL5), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SPRCL5
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573837

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	6 Publications

## Product Specific Information

**Description:** This SPRCL5 monoclonal antibody reacts with Mouse 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, CXCR5 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. CXCR5+ circulating T cells are in a resting state and migrate to the lymph nodes due to expression of CCR7 and CD62L. In tonsil, CXCR5 is expressed on nearly all CD4+ cells along with CD45RO and such activation markers as CD69 and ICOS. Tonsillar CXCR5+ cells have been shown to induce antibody production when co-cultured with B cells, thus supporting their role in providing B cell help. 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 CXCR5 an established marker of follicular helper T cells.

This SPRCL5 does not see a formaldehyde fixed epitope, therefore staining should be done prior to fixation.

**Applications Reported:** This SPRCL5 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This SPRCL5 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

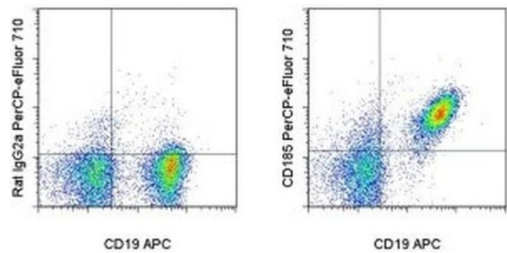
PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD185 (CXCR5) Monoclonal Antibody (SPRCL5), PerCP-eFluor™ 710, eBioscience™



**CD185 (CXCR5) Antibody (46-7185-82) in Flow**  
Staining of BALB/c splenocytes with Anti-Mouse CD19 APC (Product # 17-0193-82) and Rat IgG2a K Isotype Control PerCP-eFluor 710 (left) (Product # 46-4321-82) or Anti-Mouse CD185 PerCP-eFluor 710 (right). Cells in the lymphocyte gate were used for analysis.

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6 References

Flow Cytometry (6)

<b>Immunity</b> <b>Viral infection engenders bona fide and bystander subsets of lung-resident memory B cells through a permissive mechanism.</b> "46-7185-82 was used in Flow cytometry/Cell sorting to find that combining influenza and SARS-CoV-2 infection with fluorescent-reporter mice produce distinct subsets of MBCs colonized the lung peribronchial niche after infection." Authors: Gregoire C, Spinelli L, Villazala-Merino S, Gil L, Holgado MP, Moussa M, Dong C, Zarubica A, Fallet M, Navarro JM, Malissen B, Milpied P, Gaya M	<b>Year</b> 2022  <b>Species</b> Mouse
<b>Immunity</b> <b>SARS-CoV-2 mRNA Vaccines Foster Potent Antigen-Specific Germinal Center Responses Associated with Neutralizing Antibody Generation.</b> "Published figure using CD185 (CXCR5) monoclonal antibody (Product # 46-7185-82) in Flow Cytometry" Authors: Lederer K, Castaño D, Gómez Atria D, Oguin TH, Wang S, Manzoni TB, Muramatsu H, Hogan MJ, Amanat F, Cherubin P, Lundgreen KA, Tam YK, Fan SHY, Eisenlohr LC, Maillard I, Weissman D, Bates P, Krammer F, Sempowski GD, Pardi N, Locci M	<b>Year</b> 2020

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