

# CD185 (CXCR5) Monoclonal Antibody (SPRCL5), Biotin, 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), Biotin, eBioscience™ |
| Class                       | Monoclonal  |
| Type                        | Antibody  |
| Clone                       | SPRCL5  |
| Conjugate                   | Biotin  |
| Form                        | Liquid  |
| Concentration               | 0.5 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_2572800  |

| Applications               | Tested Dilution | Publications    |
|----------------------------|-----------------|-----------------|
| Immunohistochemistry (IHC) | -               | 1 Publication   |
| Flow Cytometry (Flow)      | 1 µg/test       | 11 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.

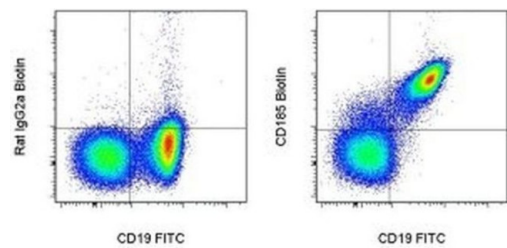
This SPRCL5 does not see a formaldehyde fixed epitope, therefore staining should be done prior to fixation.

**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 1 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.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For CD185 (CXCR5) Monoclonal Antibody (SPRCL5), Biotin, eBioscience™



**CD185 (CXCR5) Antibody (13-7185-82) in Flow**  
Staining of BALB/c splenocytes with Anti-Mouse CD19 FITC (Product # 11-0193-82) and Rat IgG2a K Biotin Isotype Control (left) (Product # 13-4321-82) or Anti-Mouse CD185 Biotin (right), followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

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

12 References

Immunohistochemistry (1)

Cell reports

**Systemic Inflammation Suppresses Lymphoid Tissue Remodeling and B Cell Immunity during Concomitant Local Infection.**

"13-7185-82 was used in Immunohistochemistry to suggest that contemporaneous systemic inflammation constrains the induction of regional immunity."

Authors: Alexandre YO,Devi S,Park SL,Mackay LK,Heath WR,Mueller SN

Year  
2020

Species  
Mouse

Flow Cytometry (11)

Nature immunology

**Pyrimidine de novo synthesis inhibition selectively blocks effector but not memory T cell development.**

"13-7185-82 was used in Flow cytometry/Cell sorting to show memory T cell precursors are resistant to pyrimidine starvation."

Authors: Scherer S,Oberle SG,Kanev K,Gerullis AK,Wu M,de Almeida GP,Puleston DJ,Baixauli F,Aly L,Greco A,Nizharadze T,Becker NB,Hoesslin MV,Donhauser LV,Berner J,Chu T,McNamara HA,Esencan Z,Roelli P,Wurmser C,Kleiter I,Vehreschild MJGT,Mayer CA,Knolle P,Klingenspor M,Fumagalli V,Iannaccone M,Prlic M,Korn T,Pearce EL,Höfer T,Schulz AM,Zehn D

Year  
2023

Species  
Mouse

Dilution  
1:200

Immunity

**SARS-CoV-2 mRNA Vaccines Foster Potent Antigen-Specific Germinal Center Responses Associated with Neutralizing Antibody Generation.**

"13-7185 was used in Flow cytometry/Cell sorting to demonstrate that a single immunization with SARS-CoV-2 mRNA, but not with the recombinant protein vaccine, elicited potent SARS-CoV-2-specific GC B and T follicular helper (Tfh) cell responses as well as LLPCs and MBCs."

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

Year  
2020

Species  
Mouse

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

More applications with references on [thermofisher.cn](https://thermofisher.cn)

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