

CD185 (CXCR5) Monoclonal Antibody (SPRCL5), PE-Cyanine7, 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), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SPRCL5
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_2573532

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	5 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 0.5 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

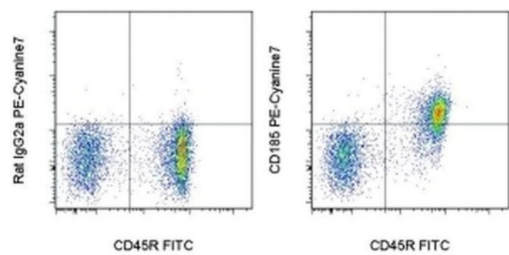
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 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: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD185 (CXCR5) Monoclonal Antibody (SPRCL5), PE-Cyanine7, eBioscience™



CD185 (CXCR5) Antibody (25-7185-82) in Flow
Staining of BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.25 µg of Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (left) or 0.25 µg of Anti-Mouse CD185 (CXCR5) PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

5 References

Flow Cytometry (5)

Immunity	Year 2020
SARS-CoV-2 mRNA Vaccines Foster Potent Antigen-Specific Germinal Center Responses Associated with Neutralizing Antibody Generation.	
"Published figure using CD185 (CXCR5) monoclonal antibody (Product # 25-7185-82) 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,Mailard I,Weissman D,Bates P,Krammer F,Sempowski GD, Pardi N,Locci M	
Frontiers in immunology	Year 2019
Mice Immunized with IgG Anti-Sheep Red Blood Cells (SRBC) Together With SRBC Have a Suppressed Anti-SRBC Antibody Response but Generate Germinal Centers and Anti-IgG Antibodies in Response to the Passively Administered IgG.	
"25-7185 was used in Flow cytometry/Cell sorting to made the surprising observation that mice immunized with IgG anti-sheep red blood cells (SRBC) and SRBC, in spite of a severely suppressed anti-SRBC response, have a strong germinal center response."	
Authors: Bergström JJE,Heyman B	
Species Mouse	

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