

# CD183 (CXCR3) Monoclonal Antibody (CXCR3-173), Super Bright™ 600, eBioscience™

| Product Details             |  |
|-----------------------------|--|
| Size                        | 100 µg   |
| Species Reactivity          | Mouse  |
| Host/Isotype                | Armenian hamster / IgG   |
| Recommended Isotype Control | Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 600, eBioscience™ |
| Class                       | Monoclonal   |
| Type                        | Antibody   |
| Clone                       | CXCR3-173  |
| Conjugate                   | Super Bright™ 600  |
| Form                        | Liquid   |
| Concentration               | 0.2 mg/mL  |
| 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_2734898   |

| Applications          | Tested Dilution | Publications   |
|-----------------------|-----------------|----------------|
| Flow Cytometry (Flow) | 1.0 µg/test     | 2 Publications |

## Product Specific Information

Description: The monoclonal antibody CXCR3-173 recognizes mouse CD183 also known as CXCR3. CD183 is a seven transmembrane G-protein like chemokine receptor which binds three ligands; CXCL9 (MIP-1α), CXCL10 (IP-10) and CXCL11 (ITAC). CD183 has been shown to play a role in CD4 T cell responses to grafts. CXCR3 knockout mice have compromised allograft rejection responses. Expression is found on NK cells, a subset of T lymphocytes and a subset of Tregs as well as preferential expression on Th1-polarized cells.

The antibody CXCR3-173 has been shown to affect chemotaxis in response to ligand. The presence of ligand eliminates staining with the antibody. In vivo addition of the antibody delays cardiac and pancreatic islet allograft rejection.

Applications Reported: This CXCR3-173 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This CXCR3-173 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1.0 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.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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.

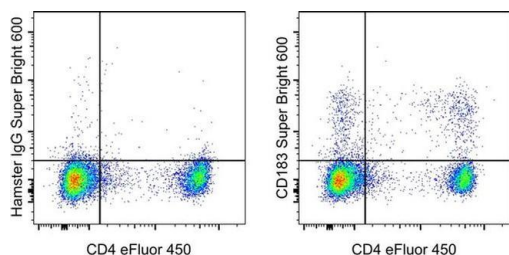
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ 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: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

## Product Images For CD183 (CXCR3) Monoclonal Antibody (CXCR3-173), Super Bright™ 600, eBioscience™



### CD183 (CXCR3) Antibody (63-1831-82) in Flow

Swiss Webster mouse splenocytes were stained with CD4 Monoclonal Antibody, eFluor 450 (Product # 48-0042-82) and 1.0  $\mu$ g of Armenian Hamster IgG Isotype Control, Super Bright 600 (Product # 63-4888-82) (left) or 1.0  $\mu$ g of CD183 Monoclonal Antibody, Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

## 2 References

### Flow Cytometry (2)

BioMed research international

#### Fluvastatin-Pretreated Donor Cells Attenuated Murine aGVHD by Balancing Effector T Cell Distribution and Function under the Regulation of KLF2.

"Published figure using CD183 (CXCR3) monoclonal antibody (Product # 63-1831-82) in Flow Cytometry"

Authors: Zhao K, Tian Y, Wang J, Chen C, Pan B, Yan Z, Zhu S, Xu K

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

Cell reports

#### Lysosomal Acid Lipase Is Required for Donor T Cells to Induce Graft-versus-Host Disease.

"Published figure using CD183 (CXCR3) monoclonal antibody (Product # 63-1831-82) in Flow Cytometry"

Authors: Nguyen HD, Ticer T, Bastian D, Kuril S, Li H, Du H, Yan C, Yu XZ

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

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