

CD181 (CXCR1) Monoclonal Antibody (eBio8F1-1-4 (8F1-1-4)), FITC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio8F1-1-4 (8F1-1-4)
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	5 µL/Test
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_11218880

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	2 Publications

Product Specific Information

Description: The eBio8F1-1-4 monoclonal antibody reacts with human CD181 (CXCR1, IL-8Ralpha). CD181 is a 67-70 kDa member of the 7-transmembrane spanning G-protein coupled receptor (GPCR) family. CD181 is expressed as a homodimer, or a heterodimer with CD182 (CXCR2, IL-8Rbeta) and is expressed on granulocytes, NK cells, a subset of T cells, mast cells, monocytes, endothelial cells, megakaryocytes and oligodendrocytes. Binding of it's ligands, which include IL-8, NAP-2, GCP-2 and GRO-alpha, induces several biological outcomes such as cell activation, chemotaxis, proliferation and angiogenesis. There are several functional differences between CD181 and CD182. Both receptors are able to mediate chemotaxis and intracellular calcium changes, but only CD181 mediates phospholipase D activation and respiratory burst. Furthermore, studies have shown that IL-8 predominantly mediates its effects on neutrophil function through CD181.

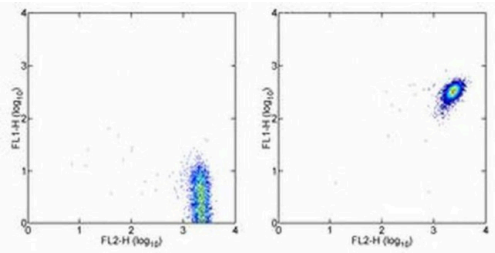
Applications Reported: This eBio8F1-1-4 (8F1-1-4) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBio8F1-1-4 (8F1-1-4) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood. This can be used at 5 µL (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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD181 (CXCR1) Monoclonal Antibody (eBio8F1-1-4 (8F1-1-4)), FITC, eBioscience™



CD181 (CXCR1) Antibody (11-1819-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD182 (CXCR2) PE (Product # 12-1829-42) and Mouse IgG2b kappa Isotype Control FITC (Product # 11-4732-42) (left) or Anti-Human CD181 (CXCR1) FITC (right). Cells in the large scatter population were used for analysis.

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

3 References

Western Blot (1)

iScience

Cardiomyocyte-fibroblast interaction regulates ferroptosis and fibrosis after myocardial injury.

"Published figure using CD181 (CXCR1) monoclonal antibody (Product # 11-1819-42) in Western Blot"

Authors: Mohr ME, Li S, Trouten AM, Stairley RA, Roddy PL, Liu C, Zhang M, Sucov HM, Tao G

Year
2024

Flow Cytometry (2)

Molecular medicine reports

n-butanol extract from Folium isatidis inhibits the lipopolysaccharide-induced downregulation of CXCR1 and CXCR2 on human neutrophils.

"Published figure using CD181 (CXCR1) monoclonal antibody (Product # 11-1819-42) in Flow Cytometry"

Authors: Wu B, Wang L, Jiang L, Dong L, Xu F, Lu Y, Jin J, Wang Z, Liang G, Shan X

Year
2018

Species
Human

Brain, behavior, and immunity

Habitual physical activity is associated with the maintenance of neutrophil migratory dynamics in healthy older adults.

"11-1819 was used in Flow cytometry/Cell sorting to suggest that impaired neutrophil migration, but not bactericidal function, in older adults may be, in part, the result of reduced physical activity."

Authors: Bartlett DB, Fox O, McNulty CL, Greenwood HL, Murphy L, Sapey E, Goodman M, Crabtree N, Thøgersen-Ntoumani C, Fisher JP, Wagenmakers AJ, Lord JM

Year
2016

Species
Human

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