

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

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio8F1-1-4 (8F1-1-4)
Conjugate	PE
Excitation/Emission Max	565/576 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_2848258

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	1 Publication

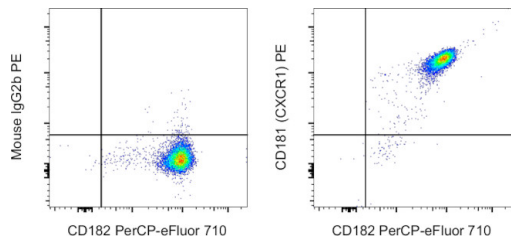
Product Specific Information

Description: The eBio8F1-1-4 (8F1-1-4) 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 its 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-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (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 10⁵ to 10⁸ cells/test.

Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser



CD181 (CXCR1) Antibody (12-1819-42) in Flow

Normal human peripheral blood cells were stained with CD182 (CXCR2) Monoclonal Antibody, PerCP-eFluor 710 (Product # 46-1829-42) and Mouse IgG2b kappa Isotype Control, PE (Product # 12-4732-82) (left) or CD181 (CXCR1) Monoclonal Antibody, PE (right). Cells in the granulocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

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 # 12-1819-42) in Flow Cytometry"

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Year
2018

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