full spectrum cell analysis®
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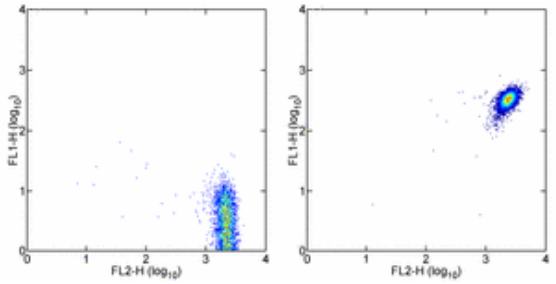
Anti-Human CD181 (CXCR1) FITC

Catalog Number: 11-1819
Also Known As:Interleukin-8 Receptor A, IL-8Ra, IL8RA
RUO: For Research Use Only



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

Product Information

Contents: Anti-Human CD181 (CXCR1) FITC
REF Catalog Number: 11-1819
Clone: eBio8F1-1-4 (8F1-1-4)
Concentration: Suffix -71/73, 20 µL (0.5 µg)/test; Suffix -41/42, 5 µL (0.5 µg)/test
Host/Isotype: Mouse IgG2b, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The eBio8F1-1-4 monoclonal antibody reacts with human CD181 (CXCR1, IL-8Rα). 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-8Rβ) 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-α, 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 phospolipase 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. Refer to catalog number suffix on the vial for amount to use per test: 71/73 are 20 µL (0.5 µg) per test; whereas 41/42 are 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 10^5 to 10^8 cells/test.

References

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Li F, Zhang X, Gordon JR. CXCL8((3-73))K11R/G31P antagonizes ligand binding to the neutrophil CXCR1 and CXCR2 receptors and cellular responses to CXCL8/IL-8. Biochem Biophys Res Commun. 2002 May 10;293(3):939-44.

Sprenger H, Lloyd AR, Meyer RG, Johnston JA, Kelvin DJ. Genomic structure, characterization, and identification of the promoter of the human IL-8 receptor A gene. J Immunol. 1994 Sep 15;153(6):2524-32.

Chuntharapai A, Lee J, Hebert CA, Kim KJ. Monoclonal antibodies detect different distribution patterns of IL-8 receptor A and IL-8 receptor B on

human peripheral blood leukocytes. J Immunol. 1994 Dec 15;153(12):5682-8.

Related Products
11-4732 Mouse IgG2b K Isotype Control FITC
12-1829 Anti-Human CD182 (CXCR2) PE (eBio5E8-C7-F10 (5E8-C7-F10))

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