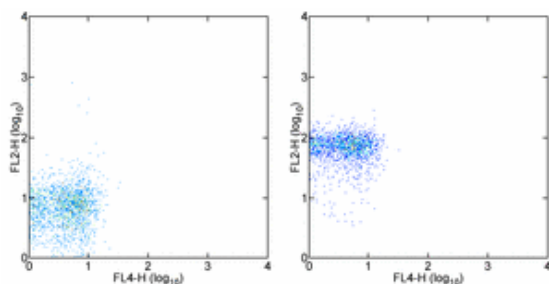


## Anti-Human CD181 (CXCR1) Purified

Catalog Number: 14-1819

Also Known As: Interleukin-8 Receptor A, IL-8Ra, IL8RA

RUO: For Research Use Only



Staining of normal human peripheral blood cells with 0.25 µg of Mouse IgG2b κ Isotype Control Purified (cat. 14-4732) (left) or 0.25 µg of Anti-Human CD181 (CXCR1) Purified (right) followed by F(ab')<sub>2</sub> Anti-Mouse IgG PE (cat. 12-4012). Cells in the large scatter population were used for analysis.

### Product Information

Contents: Anti-Human CD181 (CXCR1) Purified


**REF** Catalog Number: 14-1819

Clone: eBio8F1-1-4 (8F1-1-4)

Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgG2b, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

**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 its 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 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, and immunohistochemical staining.

### Applications Tested

This eBio8F1-1-4 (8F1-1-4) antibody has been tested by flow cytometric analysis of normal human peripheral blood. 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 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.

### References

Wolf M, Delgado MB, Jones SA, Dewald B, Clark-Lewis I, Baggiolini M. Granulocyte chemotactic protein 2 acts via both IL-8 receptors, CXCR1 and CXCR2. *Eur J Immunol.* 1998 Jan;28(1):164-70.

Lippert U, Artuc M, Grutzkau A, Moller A, Kenderessy-Szabo A, Schadendorf D, Norgauer J, Hartmann K, Schweitzer-Stenner R, Zuberbier T, Henz BM, Kruger-Krasagakes S. Expression and functional activity of the IL-8 receptor type CXCR1 and CXCR2 on human mast cells. *J Immunol.* 1998 Sep 1;161(5):2600-8.

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

11-4011 Anti-Mouse IgG FITC

12-1829 Anti-Human CD182 (CXCR2) PE (eBio5E8-C7-F10 (5E8-C7-F10))

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

17-4317 Streptavidin APC

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