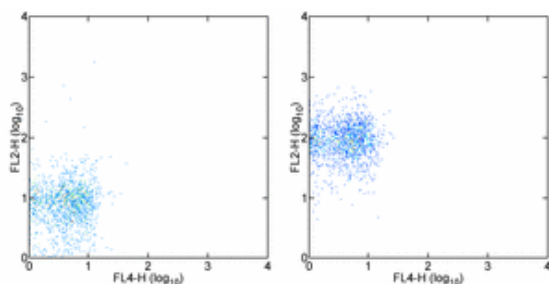


## Anti-Human CD182 (CXCR2) Purified

Catalog Number: 14-1829

Also Known As: Interleukin-8 Receptor B, IL8RB, IL98Rb

RUO: For Research Use Only



Staining of normal human peripheral blood cells with 0.25 µg of Mouse IgG1 κ Isotype Control Purified (cat. 14-4714) (left) or 0.25 µg of Anti-Human CD182 (CXCR2) 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 CD182 (CXCR2) Purified


**REF** Catalog Number: 14-1829

Clone: eBio5E8-C7-F10 (5E8-C7-F10)

Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgG1, 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 eBio5E8-C7-F10 monoclonal antibody reacts with human CD182 (CXCR2, IL-8Rβ). CD182 is a 67-70 kDa member of the seven-transmembrane spanning G-protein coupled receptor (GPCR) family. CD182 is expressed as a homodimer, or a heterodimer with CD181 (CXCR1, IL-8Rα) 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, -β and -γ, 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 eBio5E8-C7-F7 (5E8-C7-F7) antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining.

### Applications Tested

This eBio5E8-C7-F10 (5E8-C7-F10) 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

Jones SA, Dewald B, Clark-Lewis I, Baggiolini M. Chemokine antagonists that discriminate between interleukin-8 receptors. Selective blockers of CXCR2. *J Biol Chem.* 1997 Jun 27;272(26):16166-9.

Petering H, Gotze O, Kimmig D, Smolarski R, Kapp A, Elsner J. The biologic role of interleukin-8: functional analysis and expression of CXCR1 and CXCR2 on human eosinophils. *Blood.* 1999 Jan 15;93(2):694-702.

Addison CL, Daniel TO, Burdick MD, Liu H, Ehlert JE, Xue YY, Buechi L, Walz A, Richmond A, Strieter RM. The CXC chemokine receptor 2, CXCR2, is the putative receptor for ELR+ CXC chemokine-induced angiogenic activity. *J Immunol.* 2000 Nov 1;165(9):5269-77.

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.

Sprenger H, Lloyd AR, Lautens LL, Bonner TI, Kelvin DJ. Structure, genomic organization, and expression of the human interleukin-8 receptor B gene. *J Biol Chem.* 1994 Apr 15;269(15):11065-72.

Related Products

11-1819 Anti-Human CD181 (CXCR1) FITC (eBio8F1-1-4 (8F1-1-4))

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

17-4317 Streptavidin APC

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