



# CXCR1/IL-8 RA Fluorescein Labeled

**Data Sheet** 

Catalog Number: FC15001 Species Reactivity: Human

Product Type Mouse Monoclonal Protein G Format: 1.0 mL of fluorescein-labeled antibody at

purified IgG<sub>2A</sub> Antibody. Clone #: a concentration of 50 μg/mL.

Size: 100 Tests

42704

Intended Use: Designed to determine the Note: This reagent contains sodium azide as a

percentage of cells expressing preservative. Sodium azide may react with the cell surface receptor plumbing to

CXCR1/IL-8 RA and the density form explosive metal azides. Flush with of this receptor on cell surfaces large volumes of water during disposal.

by flow cytometry.

Storage: 2-8° C

Immunogen Sequence: Clone #: 42704

### **Application Notes**

### **Additional Reagents Required**

- PBS (Dulbecco's PBS)
- BSA

#### Principle of the Test

Washed cells are incubated with the FLUORESCEIN-labeled monoclonal antibody, which binds to cells expressing the CXCR1/IL-8 RA receptor. Unbound FLUORESCEIN-conjugated antibody is then washed from the cells. Cells expressing the CXCR1/IL-8 RA receptor are fluorescently stained, with the intensity of staining directly proportional to the density of CXCR1/IL-8 RA. Cell surface expression of the CXCR1/IL-8 RA receptor is determined by flow cytometric analysis using 488 nm wavelength laser excitation.

### **Reagent Preparation**

Use as is; no preparation is necessary.

### **Sample Preparation**

**Peripheral blood cells:** Whole blood should be collected in evacuated tubes containing EDTA or heparin as the anti-coagulant. Contaminating serum components should be removed by washing the cells three times in an isotonic phosphate buffer (supplemented with 0.5% BSA) by centrifugation at 500 x g for 5 minutes. 50 μL of packed cells are then transferred to a 5 mL tube for staining with the monoclonal antibody. Whole blood cells will require RBC lysis following the staining procedure.

**Cell Cultures**: Continuous cell lines or activated cell cultures should be centrifuged at 500 x g for 5 minutes and washed three times in an isotonic PBS buffer (supplemented with 0.5% BSA), as described above, to remove any residual growth factors that may be present in the culture medium. Cells should then be resuspended in the same buffer to a final concentration of 4 x  $10^6$  cells/mL and  $25~\mu$ L of cells (1 x  $10^5$ ) transferred to a 5 mL tube for staining. Note: Adherent cell lines may require pretreatment with 0.5 mM EDTA to facilitate removal from substrate. Cells that require trypsinization for removal from substrate should be further incubated in medium for 6 - 10 hours on a rocker platform to enable regeneration of the receptors. The use of a rocker platform will prevent reattachment to the substrate.

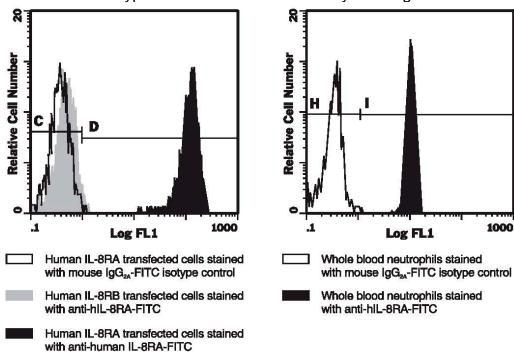
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#### Sample Staining

- 1) Cells to be used for staining with the antibody may be first Fc-blocked by treatment with 1  $\mu$ g of human IgG/10<sup>5</sup> cells for 15 minutes at room temperature. Do not wash excess blocking IgG from this reaction.
- 2) Transfer 25  $\mu$ L of the Fc-blocked cells (1 x 10 $^{5}$  cells) or 50  $\mu$ L of packed whole blood to a 5 mL tube.
- 3) Add 10 µL of FLUORESCEIN-conjugated anti-CXCR1/IL-8 RA reagent.
- 4) Incubate for 30 45 minutes at 2 8° C.
- 5) Following this incubation, remove unreacted anti-CXCR1/IL-8 RA reagent by washing (described above) the cells twice in 4 mL of the same PBS buffer (note that whole blood will require a RBC lysis step at this point using any commercially available lysing reagent).
- 6) Resuspend the cells in 200 400  $\mu$ L of PBS buffer for final flow cytometric analysis.
- 7) As a control for analysis, cells (in a separate tube) should be treated with FLUORESCEIN-labeled mouse IgG<sub>2B</sub> antibody. This procedure may need to be modified, depending upon final utilization.

# Typical CXCR1/IL-8 RA Antibody Staining



(Left Panel) Typical staining observed with FAB330F on mouse cells transfected with the human CXCR1/IL-8 RA and CXCR2/IL-8 RB gene. An isotype control staining of the CXCR1 transfected cells is also shown.

(Right Panel) Typical staining observed with FC15001 on human peripheral granulocytes. An isotyFluorescein-matched conter staining of the same granulocytes is also shown.

#### References

- 1. Oppenheim, J.J. (1991) Annu. Rev. Immunol. 9:617.
- 2. Holmes, W.E. et al. (1991) Science 253:1278.
- 3. Murphy, P.M. and H.L. Tiffany (1991)

Science 253:1280.

- 4. LaRosa, G.J. et al. (1992) J. Biol. Chem. 267:25402.
- 5. Horuk, R. et al. (1993) Biochemisry 32:5733

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