

Anti-Mouse CD184 (CXCR4) PE

Catalogue Number : 16912-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: 2B11

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

Brightness (1=dim,5=brightest): 5

Isotype: Rat IgG2b, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The 2B11 monoclonal antibody specifically reacts with mouse CD184 (CXCR4 or Fusin), a seven-transmembrane G-protein-coupled receptor. It is expressed by astrocytes, B cells, T cells, monocytes, neutrophils, neurons, and hematopoietic cell types. CD184 is a coreceptor for X4 HIV-1.

The monoclonal 2B11 antibody recognizes the amino terminus of CD184 and has functional activity.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤1 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Förster, R., Kremmer, E., Schubel, A., Breitfeld, D., Kleinschmidt, A., Nerl, C., ... ; Lipp, M. (1998). Intracellular and surface expression of the HIV-1 coreceptor CXCR4/fusin on various leukocyte subsets: rapid internalization and recycling upon activation.; *The Journal of Immunology*;;160(3), 1522-1531.
2. Schabath, R., Müller, G., Schubel, A., Kremmer, E., Lipp, M., ; Förster, R. (1999). The murine chemokine receptor CXCR4 is tightly regulated during T cell development and activation.; *Journal of leukocyte biology*;;66(6), 996-1004.
3. Gupta, S. K., Lysko, P. G., Pillarisetti, K., Ohlstein, E., ; Stadel, J. M. (1998). Chemokine Receptors in Human Endothelial Cells FUNCTIONAL EXPRESSION OF CXCR4 AND ITS TRANSCRIPTIONAL REGULATION BY INFLAMMATORY CYTOKINES.; *Journal of Biological Chemistry*;;273(7), 4282-4287.