

Anti-Mouse CD197 (CCR7) PE

Catalog Number :20012-60

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

Product Information

Clone: 4B12

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Blue (488nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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

Isotype: Rat IgG2a, 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 4B12 monoclonal antibody specifically reacts with mouse CD197 (CCR7), a seven-transmembrane G-protein-coupled glycoprotein. CD197 is a receptor thought to be a mediator of EBV effects on B lymphocytes. It is expressed on lymphoid tissue and is known to activate B and T lymphocytes and stimulate dendritic cell maturation. It often serves as a homing receptor that is used to guide various cell types to and within lymphoid tissue. The 4B12 antibody is not reported to block the binding of CCL21 to CCR7. We recommend that the cell staining done with this antibody be conducted at 37°C.

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 ≤0.5 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Britschgi, M. R., Link, A., Lissandrin, T. K. A., Luther, S. A. (2008). Dynamic modulation of CCR7 expression and function on naive T lymphocytes in vivo.; *The Journal of Immunology*;;181(11), 7681-7688.
2. Ohl, L., Mohaupt, M., Czeloth, N., Hintzen, G., Kiafard, Z., Zwirner, J., ... Förster, R. (2004). CCR7 governs skin dendritic cell migration under inflammatory and steady-state conditions.; *Immunity*;;21(2), 279-288.
3. Ritter, U., Wiede, F., Mielenz, D., Kiafard, Z., Zwirner, J., Körner, H. (2004). Analysis of the CCR7 expression on murine bone marrow-derived and spleen dendritic cells.; *Journal of leukocyte biology*;;76(2), 472-476.