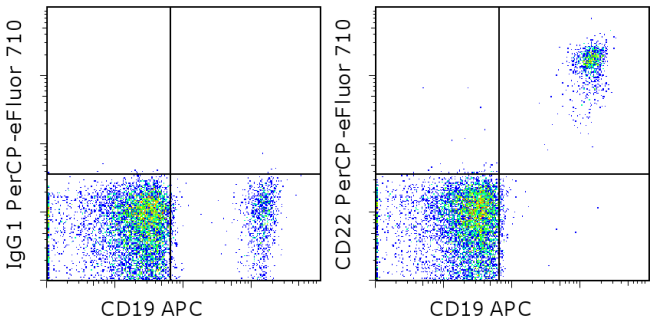
Anti-Human CD22 PerCP-eFluor® 710

Catalog Number: 46-0229
Also known as: Sialic Acid-Binding Immunoglobulin-Like Lectin 2, SIGLEC2
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Anti-Human CD19 APC (cat. 17-0199) and Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (cat. 46-4714) (left) or Anti-Human CD22 PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD22 PerCP-eFluor® 710
REF **Catalog Number:** 46-0229
Clone: eBio4KB128 (4KB128)
Concentration: 5 uL (0.06 ug)/test
Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial
Contains sodium azide

Description

The eBio4KB128 monoclonal antibody recognizes human CD22 (Siglec-2), which is a member of the siglec subgroup of the Ig superfamily. CD22 is a type I transmembrane glycoprotein composed of two polypeptide chains, CD22 alpha and CD22 beta, of 130 and 140 kDa respectively, produced by alternative splicing of the CD22 gene. CD22 is expressed at high levels on mature B cells and B cell lymphomas. The extracellular portion of CD22 contains seven Ig-like domains, some of which are capable of binding ligands with sialic acid moieties expressed on epithelial, endothelial, B and T cells. The intracellular portion of CD22 contains 6 tyrosine residues contained within immunotyrosine-based inhibitory motifs (ITIM) and immunotyrosine-based activation-like motifs, which are phosphorylated upon B-cell receptor engagement, which enables CD22 to participate in the positive and negative regulation of B-cell receptor signaling.

Applications Reported

This eBio4KB128 (4KB128) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBio4KB128 (4KB128) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 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 10^5 to 10^8 cells/test.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance

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after fixation can be made, but clone specific performance should be determined empirically.

References

Mason DY, Stein H, Gerdes J, Pulford KA, Ralfkiaer E, Falini B, Erber WN, Micklem K, Gatter KC. Value of monoclonal anti-CD22 (p135) antibodies for the detection of normal and neoplastic B lymphoid cells. Blood. 1987 Mar;69(3):836-40. (**4KB128**, IHC, PubMed)

Campana D, Janossy G, Bofill M, Trejdosiewicz LK, Ma D, Hoffbrand AV, Mason DY, Lebacq AM, Forster HK. Human B cell development. I. Phenotypic differences of B lymphocytes in the bone marrow and peripheral lymphoid tissue. J Immunol. 1985 Mar;134(3):1524-30.

Nitschke L. The role of CD22 and other inhibitory co-receptors in B-cell activation. Curr Opin Immunol. 2005 Jun;17(3):290-7. Review.

Related Products

00-4300 10X RBC Lysis Buffer (Multi-species)
17-0199 Anti-Human CD19 APC (HIB19)
46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)

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