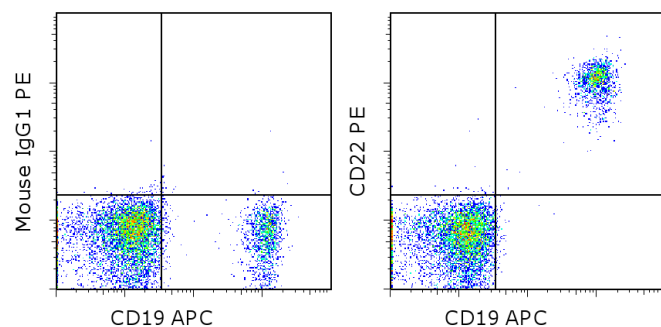


## Anti-Human CD22 PE

**Catalog Number:** 12-0229

**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 CD22 PE (cat. 12-0229) and Mouse IgG1 K Isotype Control PE (cat. 12-4714) (left) or Anti-Human CD22 PE (cat. 12-0229) (right). Cells in the lymphocyte gate were used for analysis.

### Product Information



**Contents:** Anti-Human CD22 PE

**Catalog Number:** 12-0229

**Clone:** eBio4KB128 (4KB128)

**Concentration:** 5  $\mu$ L (0.125  $\mu$ g)/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.



**Batch Code:** Refer to vial



**Use By:** Refer to vial



**Caution, contains 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  $\mu$ L (0.125  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

### 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, Lebacqz 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.

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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**

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

17-0199 Anti-Human CD19 APC (HIB19)

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