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Biotin Anti-Mouse CD22 Antibody[Cy34.1]

Catalog Number: E-AB-F1021B

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Mouse Mouse Host

Isotype Mouse IgG1, ĸ

Clone No. Cy34.1

Biotin Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09793B] Isotype Control

Conjugation

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

Applications Recommended usage

Each lot of this antibody is quality control tested by flow cytometric analysis. For flow **FCM**

> cytometric staining, the suggested use of this reagent is ≤ 1.0 µg per 10⁶ cells in 100 µL volume or 100 µL of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application.

Preparation & Storage

Storage Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Do not freeze.

Shipping Ice bag

Antigen Information

Alternate Names Siglec2;B-cell receptor CD22;B-lymphocyte cell adhesion molecule;BL-CAM;CD22;

Cd22;Lyb-8;Sialic acid-binding Ig-like lectin 2;Siglec-2;T-cell surface antigen Leu-14

Uniprot ID P35329 Gene ID 12483

Background The Cy34.1 monoclonal antibody specifically binds to the B-lymphocyte differentiation

> antigen CD22 on strains having the Lyb-8.2 alloantigen (e.g., A, BALB/c, CBA, C3H/He, C57BL, C57L, C58, SJL, SWR, but not AKR, DBA/1, DBA/2, NZB, PL). CD22 is

expressed at high levels on mature peripheral B lymphocytes (follicular and marginal zone), B-1 cells (CD5+ B cells), and plasma cells. It is a member of the lq gene superfamily and associates with the B-cell antigen receptor. Its sialic acid-binding immunoglobulin-like lectin (siglec) extracellular region mediates B-cell adhesion to

ligands on endothelial cells in the bone marrow. Its intracellular domain is

phosphorylated after cross-linking of antigen receptor or MHC class II antigen. It is involved in negative regulation of B-cell activation and protection from autoimmunity. Bcell proliferative responses to LPS or anti-mouse Ig µ chain are augmented in the

presence of Cy34.1 mAb.

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