

## PE/Cyanine5 Anti-Mouse CD22 Antibody[Cy34.1]

**Catalog Number:** E-AB-F1021G

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

| Description                    |   |
|--------------------------------|---|
| <b>Reactivity</b>              | Mouse   |
| <b>Host</b>                    | Mouse   |
| <b>Isotype</b>                 | Mouse IgG1, κ   |
| <b>Clone No.</b>               | Cy34.1  |
| <b>Isotype Control</b>         | PE/Cyanine5 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792G]   |
| <b>Conjugation</b>             | PE/Cyanine 5  |
| <b>Conjugation Information</b> | PE/Cyanine5 is designed to be excited by the Blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 670 nm (e.g., a 690/50 nm bandpass filter).  |
| <b>Storage Buffer</b>          | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.   |
| Applications                   | Recommended usage   |
| FCM                            | Each lot of this antibody is quality control tested by flow cytometric analysis. <b>The amount of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood).</b> Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.   |
| Preparation & Storage          |   |
| <b>Storage</b>                 | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze.   |
| <b>Shipping</b>                | Ice bag   |
| Antigen Information            |   |
| <b>Alternate Names</b>         | 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  |
| <b>Uniprot ID</b>              | P35329  |
| <b>Gene ID</b>                 | 12483   |
| <b>Background</b>              | 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 Ig 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. B-cell proliferative responses to LPS or anti-mouse Ig μ chain are augmented in the presence of Cy34.1 mAb. |

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