**Product Information**

- **Material Number:** 553382
- **Alternate Name:** Lyb-8.2
- **Size:** 0.5 mg
- **Concentration:** 0.5 mg/ml
- **Clone:** Cy34.1
- **Immunogen:** B10.D2 mouse splenocytes
- **Isotype:** Mouse (DBA/1) IgG1, κ
- **Reactivity:** Qc Testing: Mouse
- **Storage Buffer:** Aqueous buffered solution containing ≤0.09% sodium azide.

**Description**

The Cy34.1 antibody reacts with 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.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in literature.

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

**Application Notes**

**Application**

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**Suggested Companion Products**

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<td>Biotin Mouse IgG1 κ Isotype Control</td>
<td>0.25 mg</td>
<td>MOPC-31C</td>
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<tr>
<td>554057</td>
<td>Avidin FITC</td>
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**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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References


Doody GM, Justement LB, Delibrias CC. A role in B cell activation for CD22 and the protein tyrosine phosphatase SHP. Science. 1995; 269(5221):242-244.


