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**Product name:** AF/LE Purified Anti-Mouse CD22 Monoclonal  
Antibody

**Catalog:** DL20362F

**Synonyms:** B-cell receptor CD22, Cd22, B-lymphocyte cell  
adhesion molecule, BL-CAM, Sialic acid-binding  
Ig-like lectin 2, Siglec-2, T-cell surface antigen  
Leu-14, CD22, Lyb-8, Siglec2

**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 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  $\mu$  chain are augmented in the presence of Cy34.1 mAb.

**Form:** Liquid

**Isotype:** Mouse IgG1,  $\kappa$

**Size:** 50 $\mu$ g/500 $\mu$ g/1mg

**Host:** Mouse

**Reactivity:** Mouse

**Application:** FCM, IP

**Concentration:** 0.5 mg/mL

**Conjugation:** None (Purified antibody, Azide Free/Low endotoxin)

**SwissProt:** P35329

**Buffer:** 0.2  $\mu$ m filtered in PBS, pH 7.2. Azide Free (AF)/Low

Endotoxin (LE): Contains no stabilizers or

### **Recommended Use:**

Each lot of this antibody is quality control tested by flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is  $\leq 0.25 \mu\text{g}$  per  $10^6$  cells in  $100 \mu\text{L}$  volume or  $100 \mu\text{L}$  of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

### **Storage:**

Keep as concentrated solution.

Store at  $2\sim 8^{\circ}\text{C}$ . Do not freeze.

This product is guaranteed up to one year from purchase.