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**Product name:** Anti-Mouse CD22 Monoclonal Antibody(AF488  
Conjugated)

**Catalog:** DL20381F

**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:** 25 $\mu$ g/100 $\mu$ g

**Host:** Mouse

**Reactivity:** Mouse

**Application:** FCM

**Concentration:** 0.5 mg/mL

**Conjugation:** AF488

**SwissProt:** P35329

**Buffer:** Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

### Recommended Use:

Each lot of this antibody is quality control tested by flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results [The recommended concentration is 0.1-1  $\mu\text{g}/10^6\text{cells}$  in 100  $\mu\text{L}$  volume].

### Storage:

Keep as concentrated solution.

Store at 2~8°C and protected from prolonged exposure to light. Do not freeze.

This product is guaranteed up to one year from purchase.