

## CD22 monoclonal antibody, clone IS7 (FITC)

Catalog # MAB5105

Size 100 Reactions

### Specification

|                      |                                                                                                                                                                                                                                        |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description  | Mouse monoclonal antibody raised against native CD22.                                                                                                                                                                                  |
| Immunogen            | Native purified CD22 from Reh human cell line.                                                                                                                                                                                         |
| Host                 | Mouse                                                                                                                                                                                                                                  |
| Theoretical MW (kDa) | 130                                                                                                                                                                                                                                    |
| Reactivity           | Human                                                                                                                                                                                                                                  |
| Specificity          | This antibody reacts with CD22 (BL-CAM), a 130 KDa type I transmembrane glycoprotein (immunoglobulin superfamily) expressed in the cytoplasm of pro-B and pre-B lymphocytes, and on the surface of mature and activated B lymphocytes. |
| Form                 | Liquid                                                                                                                                                                                                                                 |
| Conjugation          | FITC                                                                                                                                                                                                                                   |
| Isotype              | IgG1                                                                                                                                                                                                                                   |
| Recommend Usage      | Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or $10^6$ cells in a suspension)<br>The optimal working dilution should be determined by the end user.                                                                |
| Storage Buffer       | In PBS (0.2% BSA, 0.09% sodium azide)                                                                                                                                                                                                  |
| Storage Instruction  | Store in the dark at 4°C. Do not freeze.<br>Avoid prolonged exposure to light.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                      |
| Note                 | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                                                 |

### Applications

- Flow Cytometry

## Gene Info — CD22

|                    |                                        |
|--------------------|----------------------------------------|
| Entrez GeneID      | <a href="#">933</a>                    |
| Gene Name          | CD22                                   |
| Gene Alias         | FLJ22814, MGC130020, SIGLEC-2, SIGLEC2 |
| Gene Description   | CD22 molecule                          |
| Omim ID            | <a href="#">107266</a>                 |
| Gene Ontology      | <a href="#">Hyperlink</a>              |
| Other Designations | CD22 antigen                           |

## Publication Reference

- [CD22: an inhibitory enigma.](#)  
Walker JA, Smith KG.  
Immunology 2007 Dec; 123(3):314.
- [Distinct endocytic mechanisms of CD22 \(Siglec-2\) and Siglec-F reflect roles in cell signaling and innate immunity.](#)  
Tateno H, Li H, Schur MJ, Bovin N, Crocker PR, Wakarchuk WW, Paulson JC.  
Molecular and Cellular Biology 2007 Jun; 27(16):5699.
- [CD22: a multifunctional receptor that regulates B lymphocyte survival and signal transduction.](#)  
Tedder TF, Poe JC, Haas KM.  
Advances in Immunology 2005 Oct; 88:1.

## Pathway

- [B cell receptor signaling pathway](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [Hematopoietic cell lineage](#)

## Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)
- [Scleroderma](#)