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# Anti-CD22-AcalephFluor488-labled

Catalog # AP100566

## Product Information

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| **Application** | FC, IF/IC |
| **Primary Accession** | P20273 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Calculated MW** | 95348 |

## Additional Information

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| **Gene ID** | 933 |
| **Other Names** | SIGLEC2; B-cell receptor CD22; B-lymphocyte cell adhesion molecule; BL-CAM; Sialic acid-binding Ig-like lectin 2; Siglec-2; T-cell surface antigen Leu-14; CD antigen CD22 |
| **Target/Specificity** | Recognizes human CD22 |
| **Dilution** | FC~~1:10~50 IF/IC~~N/A |
| **Format** | Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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| **Name** | CD22 {ECO:0000303\|PubMed:1691828, ECO:0000312\|HGNC:HGNC:1643} |
| **Function** | Most highly expressed siglec (sialic acid-binding immunoglobulin-like lectin) on B-cells that plays a role in various aspects of B-cell biology including differentiation, antigen presentation, and trafficking to bone marrow (PubMed:34330755, PubMed:8627166). Binds to alpha 2,6-linked sialic acid residues of surface molecules such as CD22 itself, CD45 and IgM in a cis configuration. Can also bind to ligands on other cells as an adhesion molecule in a trans configuration (PubMed:20172905). Acts as an inhibitory coreceptor on the surface of B-cells and inhibits B-cell receptor induced signaling, characterized by inhibition of the calcium mobilization and cellular activation. Mechanistically, the immunoreceptor tyrosine-based inhibitory motif domain is phosphorylated by the Src kinase LYN, which in turn leads to the recruitment of the protein tyrosine phosphatase 1/PTPN6, leading to the negative regulation of BCR signaling (PubMed:8627166). If this negative signaling from is of sufficient strength, apoptosis of the B-cell can be induced (PubMed:20516366). |
| **Cellular Location** | Cell membrane; Single-pass type I membrane protein |

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| **Tissue Location** | B-lymphocytes. |

## Background

AcalephFluor488-labled mouse monoclonal antibody to CD22

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.