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Anti-CD22-AcalephFluor488-labled

Catalog # AP101028

Product Information

Application	FC, IF/IC
Primary Accession	P35329
Reactivity	Mouse
Clonality	Monoclonal
Calculated MW	97181

Additional Information

Gene ID	12483
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; CD22
Target/Specificity	Recognizes mouse 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

Name	Cd22 {ECO:0000303|PubMed:10501843, ECO:0000312|MGI:MGI:88322}
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:7533044, PubMed:9016707). 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. 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 (PubMed:9016707). 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. If this negative signaling from is of sufficient strength, apoptosis of the B-cell can be induced.
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P20273}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P20273}

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'.