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30-1166: Anti-CD22 Monoclonal Antibody (Clone:MEM-01)

Clonality :	Monoclonal
Clone Name :	MEM-01
Application :	FACS
Reactivity :	Human
Gene :	CD22
Gene ID :	933
Uniprot ID :	P20273
Format :	Purified
Alternative Name :	CD22,SIGLEC2
Isotype :	Mouse IgG1
Immunogen Information :	Raji Burkitt's lymphoma cell line

Description

CD22, also known as Siglec-2 (sialic acid-binding immunoglobulin-like lectin-2) is a transmembrane glycoprotein binding alpha2,6-linked sialic acid-bearing ligands. Intracellular domain of CD22 recruits protein tyrosine phosphatase SHP-1 through the immunoreceptor tyrosine-based inhibitory motifs (ITIMs), thus setting a treshold for B cell receptor-mediated activation. CD22 also regulates B-cell response by involvement in controlling the CD19/CD21-Src-family protein tyrosine kinase amplification pathway and CD40 signaling. CD22 exhibits hallmarks of clathrin-mediated endocytic pathway.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 2-4 µg/ml.
Western blotting: Recommended dilution: 1-2 µg/ml, non-reducing conditions. The antibody MEM-01 stains only the higher Mw isoform (140 kDa, migrating sometimes as a 125 kDa band) and not the lower Mw isoform (130 kDa, migrating sometimes as a 115 kDa band).

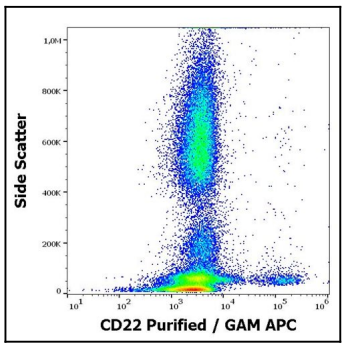

Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD22 (MEM-01) purified antibody (concentration in sample 0,6 µg/ml, GAM APC).

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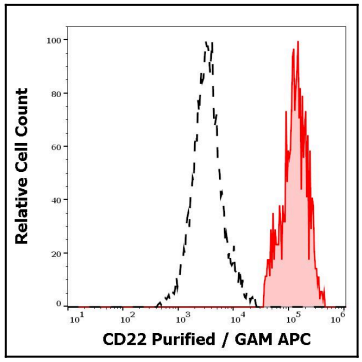

Figure 2: Separation of human CD22 positive lymphocytes (red-filled) from human CD22 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD22 (MEM-01) purified antibody (concentration in sample 0,6 µg/ml, GAM APC).

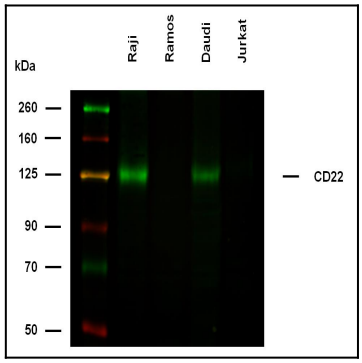

Figure 3: Anti-Hu CD22 Purified (clone MEM-01) reactivity pattern in WB application under non-reducing conditions. The reactivity of MEM-01 antibody was assessed by comparing binding signals in a panel of three human B cell and one T cell line. Western blotting analysis was performed on whole cell extracts (RIPA lysis buffer) of Raji, Ramos, Daudi, and Jurkat cell lines, mixed and heated (100°C, 5 min) without reducing agent in SDS-loading buffer. Samples were resolved using 7% SDS-PAGE gel. Nitrocellulose membrane blot was probed with mouse IgG1 monoclonal antibody MEM-01 (2 µg/ml), followed by IRDye 800CW Goat-anti-Mouse IgG (green). CD22 was detected at ~125 kDa in Raji and Daudi cell line.

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