

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

Clonality :	Monoclonal
Clone Name :	MEM-01
Application :	FACS, IP, WB
Reactivity :	Human, Non-Human Primates
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 threshold 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 $\mu\text{g/ml}$

Immunoprecipitation Western Blotting *Recommended dilution:* 2-4 $\mu\text{g/ml}$, 120 min on vertical incubator

Positive control: RAJI human lymphoma cell line

Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing SDS-PAGE sample buffer.

The antibody MEM-01 stains only the zone corresponding to 140 kDa, but not the weaker 130 kDa zone (stained by several CD22 antibodies recognizing both isoforms).