

## Product datasheet

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# ARG62774 anti-CD22 antibody [MEM-01] (Biotin)

Package: 100 μg Store at: 4°C

#### **Summary**

Product Description Biotin-conjugated Mouse Monoclonal antibody [MEM-01] recognizes CD22

Tested Reactivity Hu, NHuPrm

Tested Application FACS

Specificity The clone MEM-01 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; it is lost on plasma cells, peripheral blood T

lymphocytes, granulocytes and monocytes.

MEM-01 cross-blocks the antibody OTH228 that recognizes uniquely epitope "E"; it does not cross-

block antibodies RFB-4, CLB22/1 and CLB-BLy1.

Host Mouse

**Clonality** Monoclonal

Clone MEM-01

Isotype IgG1

Target Name CD22

Species Human

Immunogen Raji Burkitt's lymphoma cell line

Conjugation Biotin

Alternate Names B-lymphocyte cell adhesion molecule; B-cell receptor CD22; T-cell surface antigen Leu-14; BL-CAM;

SIGLEC-2; Sialic acid-binding Ig-like lectin 2; Siglec-2; CD antigen CD22; SIGLEC2

#### **Application Instructions**

Application table	Application	Dilution
	FACS	1 - 3 μg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### **Properties**

Form Liquid

Purification Note The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free

of unconjugated biotin.

Buffer PBS (pH 7.4) and 15 mM Sodium azide

Preservative 15 mM Sodium azide

Concentration 1 mg/ml

Storage instruction Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid

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repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Database links GeneID: 933 Human

Swiss-port # P20273 Human

Gene Symbol CD22

Gene Full Name CD22 molecule

Background 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.

Mediates B-cell B-cell interactions. May be involved in the localization of B-cells in lymphoid tissues. Binds sialylated glycoproteins; one of which is CD45. Preferentially binds to alpha-2,6-linked sialic acid. The sialic acid recognition site can be masked by cis interactions with sialic acids on the same cell surface. Upon ligand induced tyrosine phosphorylation in the immune response seems to be involved in regulation of B-cell antigen receptor signaling. Plays a role in positive regulation through interaction with Src family tyrosine kinases and may also act as an inhibitory receptor by recruiting cytoplasmic phosphatases via their SH2 domains that block signal transduction through dephosphorylation of

signaling molecules. [UniProt]

Research Area Cancer antibody; Developmental Biology antibody; Immune System antibody; Immature B Cell Marker

antibody

Calculated Mw 95 kDa

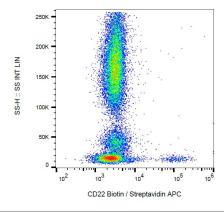
PTM Phosphorylation of Tyr-762, Tyr-807 and Tyr-822 are involved in binding to SYK, GRB2 and SYK,

respectively. Phosphorylation of Tyr-842 is involved in binding to SYK, PLCG2 and PIK3R1/PIK3R2.

Phosphorylated on tyrosine residues by LYN.

#### **Images**

Function



### ARG62774 anti-CD22 antibody [MEM-01] (Biotin) FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG62774 anti-CD22 antibody [MEM-01] (Biotin), followed by Streptavidin (APC).