

Product datasheet

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ARG53793 anti-CD22 antibody [MEM-01] (PE)

Package: 100 tests Store at: 4°C

Summary

Product Description PE-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 PE

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	20 μl / 10^6 cells
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 R-Phycoerythrin (PE) under optimum conditions. The

conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is

necessary.

Buffer PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA

Preservative 15 mM Sodium azide

Stabilizer 0.2% (w/v) high-grade protease free BSA

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

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.

Function 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

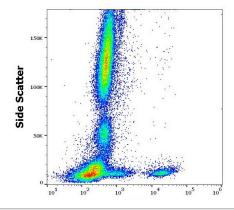
Calculated Mw 95 kDa

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.

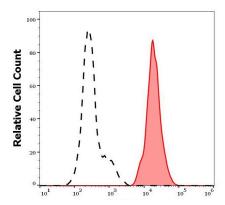
Phosphorylated on tyrosine residues by LYN.

Images



ARG53793 anti-CD22 antibody [MEM-01] (PE) FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG53793 anti-CD22 antibody [MEM-01] (PE) (20 μ l reagent / 100 μ l of peripheral whole blood).



ARG53793 anti-CD22 antibody [MEM-01] (PE) FACS image

Flow Cytometry: Separation of human CD22 positive lymphocytes (red-filled) from CD22 negative lymphocytes (black-dashed). Human peripheral whole blood stained with ARG53793 anti-CD22 antibody [MEM-01] (PE) (20 μ l reagent / 100 μ l of peripheral whole blood).