

Datasheet for ABIN94037
anti-CD22 antibody (PE)



[Go to Product page](#)

3 Images

Overview

Quantity:	100 tests
Target:	CD22
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD22 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Raji Burkitt's lymphoma cell line
Clone:	MEM-01
Isotype:	IgG1
Specificity:	The antibody MEM-01 reacts with an extracellular epitope of 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. The antibody 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.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

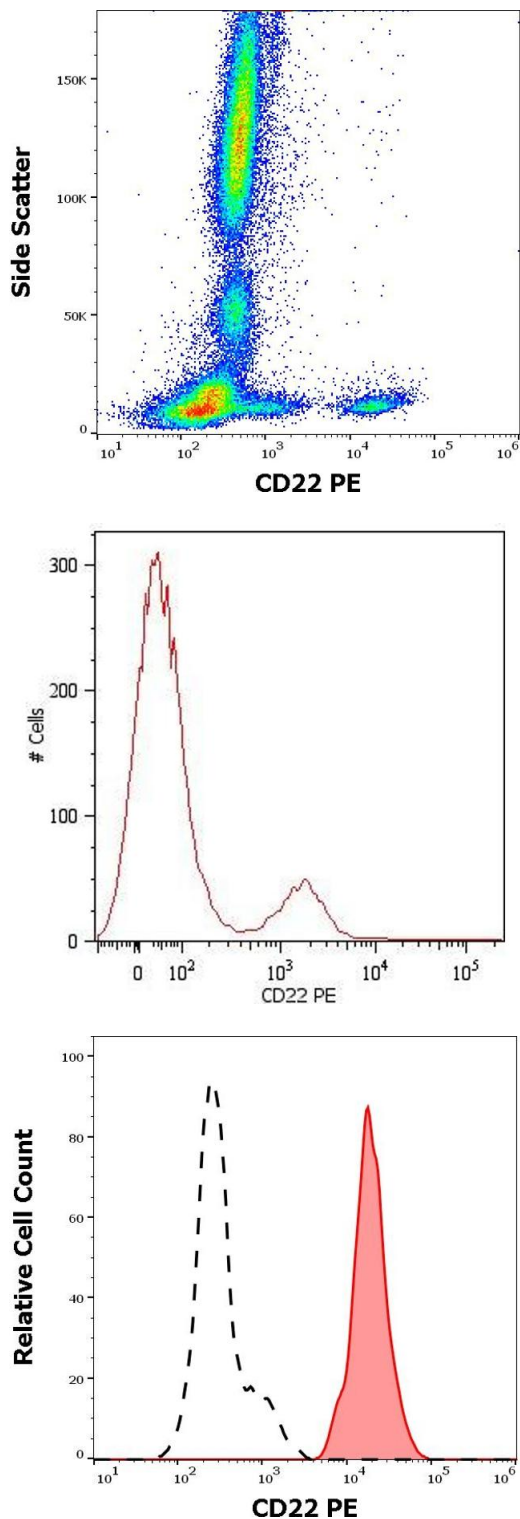
Target:	CD22
Alternative Name:	CD22 (CD22 Products)
Background:	<p>CD22 Molecule,CD22, also known as Siglec-2 (sialic acid-binding immunoglobulin-like lectin-2) is a transmembrane glycoprotein binding alpha2,6-linked sialic acid-bearing ligands.</p> <p>Intracellular domain of CD22 recruits protein tyrosine 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.</p> <p>CD22 exhibits hallmarks of clathrin-mediated endocytic pathway.,SIGLEC2, SIGLEC-2</p>
Gene ID:	933
UniProt:	P20273

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	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.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD22 (MEM-01) PE antibody (20 μ L reagent / 100 μ L of peripheral whole blood).

Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-CD22 (MEM-01) PE. Cells in the lymphocyte gate were used for analysis.

Flow Cytometry

Image 3. Separation of human CD22 positive lymphocytes (red-filled) from CD22 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD22 (MEM-01) PE antibody (20 μ L reagent / 100 μ L of peripheral whole blood).