

Product Data Sheet

Human CD22 (BL-CAM) Antibodies and Conjugates

Cat# CD22UL-100	Mouse Anti-Human CD22 IgG, Unlabeled	Size: 100 ug
Cat# CD22F-100	Mouse Anti-Human CD22 IgG-FITC Conjugate	Size: 100 tests
Cat# CD22P-100	Mouse Anti-Human CD22 IgG-PE Conjugate	Size: 100 tests
Cat# CD22PC-100	Mouse Anti-Human CD22 IgG-PE-Cy5 Conjugate	Size: 100 tests

CD22 McAb recognizes a 130-140 KD type I transmembrane glycoprotein which is a B cell restricted antigen. CD22 antigen is expressed in the cytoplasm of pro-B cells and pre-B cells, and on the surface of mature B lymphocytes. After activation, the level of CD22 antigen expression is increased, and is lost during the terminal stage of B cell differentiation. Most B cell leukemias and lymphomas also express CD22 antigen which is absent from T cells, monocytes and granulocytes. Detecting the cytoplasmic CD22 antigen is valuable for diagnosing precisely early B-ALL. Also CD22 is one of the important markers to diagnose hairy-cell leukemia (HCL). CD22 antigen is an adhesion molecule and may augment the signal of B cell activation. The ligands for CD22 are CD45RO antigen on T cells and CD75 antigen on B cells participating in the homotypic interaction of T and B cells.

Monoclonal anti-human CD22 antibody is produced in mouse (**IgG1**), purified, and coupled to FITC, PE, Cy5 etc). Antigen: Raji Burkitt's lymphoma cell line

Matching isotype Controls

Catalog#	ProdDescription
20101-101	Mouse IgG1 isotype control, purified
20101-101-B	Mouse IgG1-Biotin conjugate
20101-101-F	Mouse IgG1-FITC conjugate (isotype control)
20101-101-FP	Mouse IgG1-FITC-PE conjugate (control)
20101-101-HP	Mouse IgG1-HRP conjugate (isotype control)
20101-101-PC5	Mouse IgG1-PE-Cy5 conjugate (control)
20101-101-PE	Mouse IgG1-PE conjugate (control)

Cat# CD22UL-100, unlabeled

The antibody is supplied in PBS, pH 7.4, and 0.05% azide, and 0.1% BSA in either **lyophilized** (100 ug or 100 tests) or **liquid** form (see the lot specific volume indicated on the vial). Reconstitute powder in PBS. Store at -2-4oC. Stability is ~6-12 months. Do not freeze and thaw.

Cat# CD22F-100, FITC-conjugate

Purified antibody was coupled to FITC at F/P ratio ~5. The antibody is supplied in PBS, pH 7.4, 1% BSA (see lot sp concn on the vial) or in powder form. **Reconstitute** powder in PBS. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze/thaw.

Suggested conjugate dilutions are 1:20-1:500 for immunofluorescence. Or 1 test equivalent of antibody per million cells.

Absorption @495 nm Emission @528 nm

Cat# CD22P-100, PE-conjugate

The purified antibody was coupled to R-Phycoerythrin (R-PE) (Molecular Weight 240,000 daltons) from seaweed using proprietary methods (A565nm/A280nm ~3-4).

**Absorption @490 nm, 545 nm and 565 nm
Emission Wavelength: 580 nm**

The conjugate is provided in PBS, pH 7.5, containing 0.1% bovine serum albumin, (BSA) 0.05% sodium azide and stabilizing agent). DO NOT FREEZE. The product should be stored at 4oC and is stable for a minimum of 1 year. Do not store diluted solutions.

Recommended usage 1 test equivalent of antibody per million cells for Flow cytometry or FACS. Due to many experimental variations, optimum concn must be determined for a given applications

Cat# CD22PC-100, PE-Cy5-conjugate

Purified antibody was coupled to PE-Cy5.5 (Cyanine 5.29-OSu) (Molecular Weight 975 daltons) at F/P ratio ~6:1. The antibody is supplied in PBS, pH 7.4, 0.5% BSA, IgG, and 0.05% azide in either **lyophilized** or **liquid** form (see lot specific concn on the vial). **Reconstitute** powder in PBS. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested applications: Suitable for immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based fluorescent assays

Suggested conjugate dilutions are 1:100-1:500 for immunofluorescence. Users must optimize the dilutions for a given technique. Or 1 test equivalent of antibody per million cells.

**Absorption Wavelength: 650 nm
Emission Wavelength: 667 nm**

Recommended Working Dilution for ELISA

Working dilution for the specific application should be determined by the investigator to obtain the best conditions and prepared immediately before use. Diluted solution should be discarded. This product can be used in immunodiffusion, ELISA, flow cytometry, immunofluorescence or immunolocalization.

in vitro research use only.

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