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**Anti-Human CD44
Monoclonal Antibody**

| Catalogue# | Format | Size | Concentration | Isotype Control |
|------------------|----------|--------|---------------|-----------------|
| CL7665AP | Purified | 250 µg | 1.0 mg/ml | CLCMG2A00 |
| CL7665APC | APC | 100 µg | 0.1 mg/ml | CLCMG2A05 |
| CL7665B | Biotin | 100 µg | 0.1 mg/ml | CLCMG2A15 |
| CL7665F | FITC | 100 µg | 0.1 mg/ml | CLCMG2A01 |
| CL7665PE | PE | 50 µg | 0.1 mg/ml | CLCMG2A04 |

Isotype: Mouse IgG_{2a}

DESCRIPTION:

The CD44 antigen is a cell-surface glycoprotein involved in cell to cell and cell-matrix interactions, cell adhesion and migration, which it achieves through its affinity for hyaluronic acid (HA) and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases. CD44 is also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction of CD44 is observed in numerous pathogenic phenotypes including various forms of cancer.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

APC, Biotin, FITC and PE: APC/Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE APC and PE conjugates. For long term storage (**Purified, Biotin** and **FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

APPLICATIONS:

This antibody is suitable for use in Flow Cytometry (0.2 – 0.1 µg/10⁶ cells), Immunohistochemistry, Immunofluorescence, Immunoprecipitation, Western Blotting and Functional Assays (inhibition of CD44-hyaluronate binding).

Continued.....

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SPECIFICATIONS:

Clone: BU75

Immunogen: Follicular dendritic cells and germinal center B cells.

Specificity: This antibody is specific for human CD44 (Pgp-1).

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Cell Concentration: 1×10^6 cells per tests

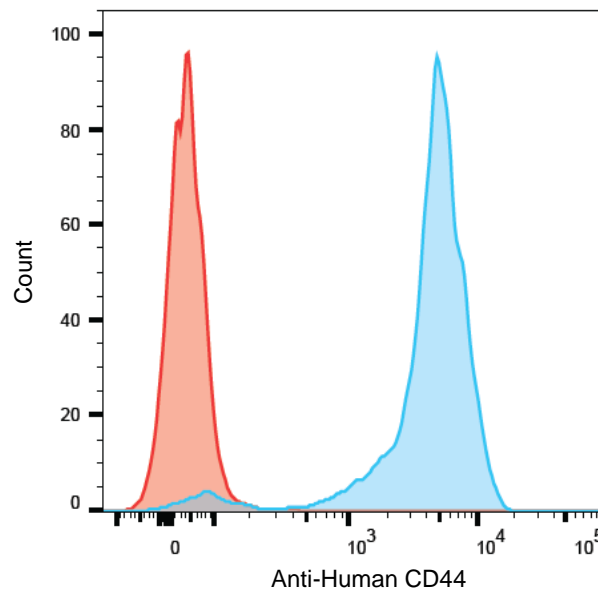
Antibody Concentration Used: $0.1 \mu\text{g}/10^6$ cells

Cell Source:

Human PBLs

Percentage of cells stained above control:

95.6 %



Human peripheral blood lymphocytes were stained with anti-CD44 (clone: BU75) (blue histogram) or Mouse IgG2a isotype control (red histogram).

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

1. Denning, S. M., et al. (1995) in Leucocyte Typing V (Schlossman, S., ed) pp. 1713–1719, Oxford University Press, Oxford.
2. Telen MJ, et al. (1996) A blood group-related polymorphism of CD44 abolishes a hyaluronan-binding consensus sequence without preventing hyaluronan binding. *J Biol Chem.* 271(12):7147-53.
3. Zittermann SI, et al. (2001) Modulation of CD44 in acute lymphoblastic leukemia identifies functional and phenotypic differences of human B cell precursors. *Eur J Haematol.* 66(6):377-82.

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