

TECHNICAL DATA SHEET

PE Anti-Human CD23 (EBVCS-5)

Catalog Number: 50-0237

PRODUCT INFORMATION

Contents: PE Anti-Human CD23 (EBVCS-5)

Isotype: Mouse IgG1, kappa

Concentration: 5 μ L (0.25 μ g)/test

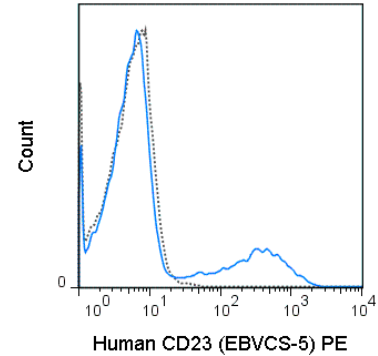
Clone: EBVCS-5

Reactivity: Human

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C protected from light

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, 0.1% gelatin, pH7.2



Human peripheral blood lymphocytes were stained with 5 μ L (0.25 μ g) PE Anti-Human CD23 (50-0237) (solid line) or 0.25 μ g PE Mouse IgG1 isotype control (dashed line).

DESCRIPTION

The EBVCS-5 antibody is specific for human CD23, also known as the low affinity IgE receptor (Fc ϵ R2), a 45 kDa type II transmembrane protein and member of the immunoglobulin superfamily. It is expressed on most B cells and is upregulated upon activation. It is also present on mantle zone B cells, eosinophils, monocytes and a subset of T cells and platelets. CD23 plays a role in B cell development and differentiation, and also functions to regulate IgE production. Soluble secreted forms of CD23 have been reported to bind IgE, stimulate release of pro-inflammatory cytokines from monocytes, and play a role in B cell differentiation.

PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

APPLICATION NOTES

This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 μ L per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 μ L. The number of cells within a sample should be determined empirically, but typically ranges between 1x10⁵ to 1x10⁸ cells.

REFERENCES

- Knapp W, Dorken B, et al. eds. 1989. Leucocyte Typing IV: White Cell Differentiation Antigens. Oxford University Press. New York.
- Yukawa K, Kikutani H, Owaki H, Yamasaki K, Yokota A, Nakamura H, Barsumian EL, Hardy RR, Suemura M and Kishimoto T. 1987. J Immunol. 138(8): 2576-2580.
- Armant M, Ishihara H, Rubio M, Delespesse G and Sarfati M. 1994. J Exp Med. 194(3): 1005-1011.
- Belleau JT, Gandhi RK, McPherson HM and Lew DB. 2005. Clin Mol Allergy. 3:6. (Flow cytometry)
- Farren TW, Giustiniani J, Liu FT, Tsitsikas DA, Macey MG, Cavenagh JD, Oakervee HE, Taussig D, Newland AC, Calaminici M, Bensussan A, Jenner M, Gribben JB and Agrawal SG. 2011. Blood. 118(8): 2174-2183. (Flow cytometry)
- Cromvik J, Johnsson M, Vaht K, Johansson JE and Wenneras C. 2014. Immun Inflamm Dis. 2(2): 99-113. (Flow cytometry)

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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