

TECHNICAL DATA SHEET

PE-Cy7 Anti-Human CD10 (SN5c)

Catalog Number: 60-0108

PRODUCT INFORMATION

Contents: PE-Cy7 Anti-Human CD10 (SN5c)

Isotype: Mouse IgG1, kappa

Concentration: 5 μ L (0.125 μ g)/test

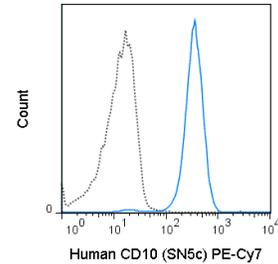
Clone: SN5c

Reactivity: Human

Use By: 6 months from date of receipt

Storage Conditions: 2-8°C protected from light

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% Na₃N, 0.1% gelatin, pH7.2



Human peripheral blood granulocytes were stained with 5 μ L (0.125 μ g) PE-Cy7 Anti-Human CD10 (60-0108) (solid line) or 0.125 μ g PE-Cy7 Mouse IgG1 isotype control (dashed line).

DESCRIPTION

The SN5c antibody is specific for human CD10, a 100 kDa type II transmembrane protein also known as Common Acute Lymphoblastic Leukemia Antigen (CALLA). In normal cells, it is expressed on early B and T lymphoid precursors, neutrophils and on various epithelia. CD10 is also expressed on several lymphoma cells including Burkitt's, acute lymphoblastic, and follicular germinal center lymphomas. CD10 functions as an endopeptidase and is involved in B cell development, as well as a mediator of neutrophil inflammatory responses.

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

- Matsuzaki H, Haruta Y, Fukukawa T, Barcos MP and Seon BK. 1987. *Cancer Res.* 47(8): 2160-2166.
 Shipp MA, Stefano GB, Switzer SN, Griffin JD and Reinherz EL. 1991. *Blood.* 78(7): 1834-1841.
 Pinho S, Lacombe J, Hanoun M, Mizoguchi T, Bruns I, Kunisaki Y and Frenette PS. 2013. *J Exp Med.* 201(7): 1351-1367. (Flow cytometry)
 Mukhopadhyay C, Zhao X, Maroni D, Band V and Naramura M. 2013. *PLoS One.* 8(10): e75907. (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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