

TECHNICAL DATA SHEET

PE-Cy7 Anti-Human CD56 (NCAM) (MY31)

Catalog Number: 60-0564

PRODUCT INFORMATION

Contents: PE-Cy7 Anti-Human CD56 (NCAM) (MY31)

Isotype: Mouse IgG1, kappa

Concentration: 5 µL (0.5 µg)/test

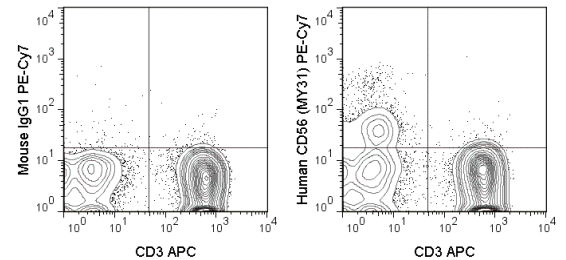
Clone: MY31

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% NaN₃, 0.1% gelatin, pH7.2



Human peripheral blood lymphocytes were stained with APC Anti-Human CD3 (20-0038) and 5 µL (0.5 µg) PE-Cy7 Anti-Human CD56 (60-0564) (right panel) or 0.5 µg PE-Cy7 Mouse IgG1 isotype control (left panel).

DESCRIPTION

The MY31 antibody reacts with human CD56, also known as the neural cell adhesion molecule (NCAM), a glycoprotein which is a member of the immunoglobulin superfamily. The 140 kDa isoform of CD56 is expressed on human NK cells and NK-T cells, with increased expression levels on activated NK lymphocytes. The CD56 antigen is also expressed by neurons and is reported to play a role in nervous system development and neural cell-to-cell adhesion. Clone MY31 also reacts with a subset of CD14+ monocytes in non-human primates, and is reported to be cross-reactive with Chimpanzee, Cynomolgus and Rhesus.

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 µL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 µL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10⁵ to 1x10⁸ cells.

REFERENCES

- Lanier LL, Testi R, Bindl J and Phillips JH. 1989. *J Exp Med.* 169: 2233-2238.
- Schlossman SF, Boumsell L, Gilks W et al., eds. 1995. *Leucocyte Typing V: White Cell Differentiation Antigens.* Oxford University Press.
- Carter DL, Shieh TM, Blosser RL, Chadwick KR, Margolick JB, Hidreth JE, Clements JE and Zink MC. 1999. *Cytometry.* 37(1): 41-50.
- Chan WK, Suwannasaen D, Throm RE, Li Y, Eldridge PW, Houston J, Gray JT, Pui C-H and Leung W. 2015. *Leukemia.* 29: 387-395. (Flow cytometry)
- Woltman AM, Op den Brouw ML, Biesta PJ, Shi CC and Janssen HLA. 2011. *PLoS ONE* 6(1): e15324. doi: 10.1371/journal.pone.0015324. (Flow cytometry)
- Bleul CC, Wu L, Hoxie JA, Springer TA and Mackay CR. 1997. *Proc Natl Acad Sci USA.* 94(5): 1925-1930. (Flow cytometry)
- Brown K and Barratt-Boyes SM. 2009. *J Med Primatol.* 38(4): 272-278. (Flow cytometry – Rhesus)

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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