

## TECHNICAL DATA SHEET

# violetFluor™ 450 Anti-Human CD56 (NCAM) (MY31)

Catalog Number: 75-0564

## PRODUCT INFORMATION

**Contents:** violetFluor™ 450 Anti-Human CD56 (NCAM)

**Isotype:** Mouse IgG1, kappa

**Concentration:** 5 µL (0.5 µg)/test

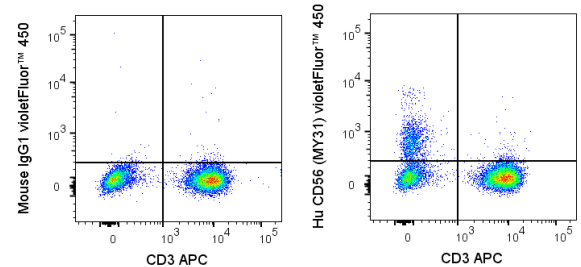
**Clone:** MY31

**Reactivity:** Human

**Use By:** 6 months from date of receipt

**Storage Conditions:** 2-8°C protected from light

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>,  
0.1% gelatin, pH7.2



Human peripheral blood lymphocytes were stained with APC Anti-Human CD3 (20-0038) and 5 µL (0.5 µg) violetFluor™ 450 Anti-Human CD56 (75-0564) (right panel) or 0.5 µg violetFluor™ 450 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 1x10<sup>5</sup> to 1x10<sup>8</sup> cells.

violetFluor™ 450 dye is excited by the violet (405 nm) laser and has a peak emission of 450 nm. The most common band pass filters for this dye are 440/40 or 450/50. violetFluor™ 450 can be used as an alternative for Pacific Blue®, BD Horizon™ V450 or eFluor® 450.

## REFERENCES

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- Schlossman SF, Boumsell L, Gilks W et al., eds. 1995. Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press.
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- 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)
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- 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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