

## TECHNICAL DATA SHEET

# violetFluor™ 450 Anti-Human CD20 (2H7)

Catalog Number: 75-0209

## PRODUCT INFORMATION

**Contents:** violetFluor™ 450 Anti-Human CD20 (2H7)

**Isotype:** Mouse IgG2b, kappa

**Concentration:** 5 µL (0.5 µg)/test

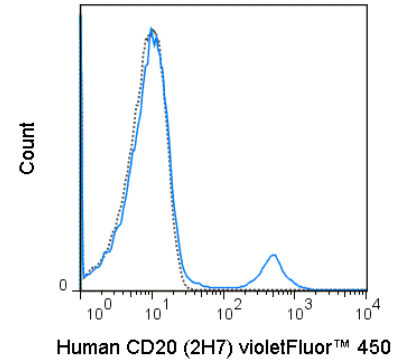
**Clone:** 2H7

**Reactivity:** Human

**Use By:** 12 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% Na<sub>3</sub>N, 0.1% gelatin, pH7.2



Human peripheral blood lymphocytes were stained with 5 µL (0.5 µg) violetFluor™ 450 Anti-Human CD20 (75-0209) (solid line) or 0.5 µg violetFluor™ 450 Mouse IgG2b isotype control (dashed line).

## DESCRIPTION

The 2H7 antibody reacts with human CD20, expressed by pre-B cells, resting and activated B cells, follicular dendritic cells and a small subset of T cells, but not on plasma cells. CD20 is a 33-37 kDa transmembrane protein which is differentially phosphorylated in resting and active B cells. The CD20 molecule plays a role in regulating B-cell activation. The 2H7 antibody is reported to be cross-reactive with several non-human species including Baboon, Chimpanzee, Cynomolgus and Rhesus. Please choose the appropriate format for each application.

## 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

- Liu AY, Robinson RR, Murray Jr ED, Ledbetter JA, Hellstrom I and Hellstrom KE. 1987. J Immunol. 139(10): 3521-3526.
- Schlossman S, Bloumsell L, et al. eds. 1995. Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York.
- Deans JP, Kalt E, Ledbetter JA, Schieven GL, Bolen JB and Johnson P. 1995. J Biol Chem. 270: 22632-22638. (Flow cytometry)
- Polyak MJ and Deans JP. 2002. Blood. 99(9): 3256-3262. (Flow cytometry, Immunoprecipitation)
- Brown KN, Trichel A and Barratt-Boyes SM. 2007. J Immunol. 178(11): 6958-6967. (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.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.