

TECHNICAL DATA SHEET

# redFluor™ 710 Anti-Human CD20 (2H7)

Catalog Number: 80-0209

## PRODUCT INFORMATION

**Contents:** redFluor™ 710 Anti-Human CD20 (2H7)

**Isotype:** Mouse IgG2b, kappa

**Concentration:** 5 µL (0.5 µg)/test

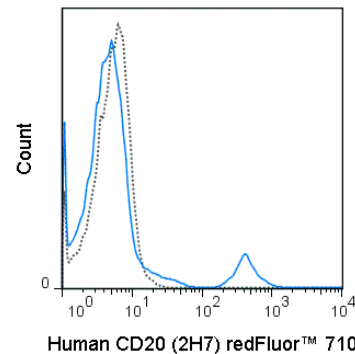
**Clone:** 2H7

**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% NaN<sub>3</sub>, 0.1% gelatin, pH7.2



Human peripheral blood lymphocytes were stained with 5 µL (0.5 µg) redFluor™ 710 Anti-Human CD20 (80-0209) (solid line) or 0.5 µg redFluor™ 710 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.

redFluor™ 710 dye is excited by the red (633-647 nm) laser and has a peak emission of 710 nm. The recommended band pass filter for this dye is 710/50. redFluor™ 710 can be used as an alternative for Alexa Fluor® 700. Confirm that your cytometer is configured to detect this fluorochrome.

## 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.

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