

Product Data Sheet

Pacific Blue™ anti-human CD20

Catalog # / Size: 302319 / 25 µg
 302320 / 100 µg
 302328 / 100 tests

Clone: 2H7

Isotype: Mouse IgG2b, κ

Workshop Number: IV B201

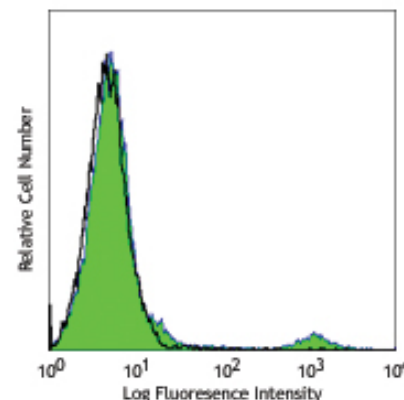
Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus, Pigtailed Macaque, Capuchin Monkey, Squirrel Monkey

Preparation: The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.

Formulation: test size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
 µg sizes: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: test size: lot-specific; µg sizes: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes were stained with anti-CD20 (clone 2H7) Pacific Blue™ (filled histogram), or mouse IgG2b, κ Pacific Blue™ (open histogram).

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **For test size**, the suggested use of this reagent for immunofluorescent staining is 5 µl per 10⁶ cells in 100 µl volume. **For µg sizes**, the suggested use of this reagent for immunofluorescent staining is ≤0.5 µg per 10⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

** Pacific Blue™ is a registered trademark of Molecular Probes, Inc. Pacific Blue™ dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation⁴ and immunohistochemical staining of acetone-fixed frozen sections⁵.

Application References:

- Schlossman S, *et al.* 1995. Leucocyte Typing V. Oxford University Press. New York.
- Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York.
- McMichael A, *et al.* Eds. 1987. Leucocyte Typing III Oxford University Press. New York.
- Polyak MJ, *et al.* 2002. *Blood* 99:3256. (IP)
- Mack CL, *et al.* 2004. *Pediatr. Res.* 56:79. (IHC)
- Davis ZB, *et al.* 2011. *J Vis Exp.* 49:2668. PubMed.
- Rusmini M, *et al.* 2013. *PLoS One.* 8:e59066. PubMed.

Description: CD20 is a 33-37 kD, four transmembrane spanning protein, also known as B1 and Bp35. CD20 is expressed on pre-B-cells, resting and activated B cells (not plasma cells), some follicular dendritic cells, and at low levels on a T cell subset. CD20 is heavily phosphorylated on activated B cells and malignant B cells. Homo-oligomeric complexes of CD20 are thought to form Ca²⁺ conductive ion channels in the plasma membrane of B cells. The CD20 molecule is involved in B-cell activation and is associated with various Src family kinases (Lyn, Lck, Fyn). It exists in a complex with MHC class I and II, CD53, CD81, and CD82.

Antigen References:

- Hultin L, *et al.* 1993. *Cytometry* 14:196.
- Tedder T, *et al.* 1994. *Immunol. Today* 15:450.

Related Products:

Product
 Cell Staining Buffer
 Pacific Blue™ Mouse IgG2b, κ Isotype Ctrl
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone

MPC-11

Application

FC, ICC, ICFC
 FC, ICFC
 FC, ICC, ICFC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biollegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.