



GMP PE/Cyanine7 anti-human CD20 Antibody

Catalog# / Size 260204 / 100 tests

Clone 2H7

 Workshop
 IV B201

 Other Names
 B1, Bp35

Isotype Mouse IgG2b, κ

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.

Product Details

Reactivity Human

Antibody Type Monoclonal

Host Species Mouse

Immunogen Human tonsillar B cells

Formulation Phosphate-buffered solution, pH 7.2, containing True-Stain Monocyte Blocker™, 0.09% sodium

azide and 0.2% (w/v) BSA (origin USA) and a stabilizer.

Preparation The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under

optimal conditions.

Concentration 100 µg/mL

Storage & Handling The antibody solution should be stored undiluted between 2°C and 8°C, and protected from

prolonged exposure to light. Do not freeze.

Application FC - Quality tested

Recommended Usage Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric

<u>analysis</u>. For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be

titrated for optimal performance for each application.

Excitation Laser Blue Laser (488 nm)

Green Laser (532 nm)/Yellow-Green Laser (561 nm)

Application Notes The epitope recognized by clone 2H7 has been mapped to the sequence YNCEPANPSEKNSPST

which lies in the large extracellular loop of human CD20. Additional reported applications (for the relevant formats) include: immunoprecipitation⁴ and immunohistochemical staining of acetone-fixed

frozen sections⁵.

Application References
(PubMed link indicates

BioLegend citation)

1. Schlossman S, et al. 1995. Leucocyte Typing V. Oxford University Press. New York.

2. Knapp W, et al. 1989. Leucocyte Typing IV. Oxford University Press. New York.

3. McMichael A, et al. Eds. 1987. Leucocyte Typing III Oxford University Press. New York.

4. Polyak MJ, et al. 2002. Blood 99:3256. (IP)

5. Mack CL, et al. 2004. Pediatr. Res. 56:79. (IHC)

Disclaimer

GMP RUO Flow Cytometry Antibodies. BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:

· Batch-to-batch consistency

- · Material traceability
- · Documented procedures
- · Documented employee training
- · Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

Antigen Details

Structure Four transmembrane protein (TM4SF), heavily phosphorylated after activation, 33-37 kD

Distribution B cell, T cell subsets

Function B cell activation

Ligand/Receptor Src family tyrosine kinases, MHC class I, II, CD53, CD81, CD82

Cell Type B cells, T cells

Biology Area Costimulatory Molecules, Immunology

Molecular Family CD Molecules

Antigen References 1. Hultin L, et al. 1993. Cytometry 14:196.

2. Tedder T, et al. 1994. Immunol. Today 15:450.

Gene ID <u>931</u>

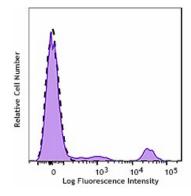
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

APC anti-human CD20, FITC anti-human CD20, PE anti-human CD20, PE/Cyanine5 anti-human CD20, Purified anti-human CD20, APC/Cyanine7 anti-human CD20, PE/Cyanine7 anti-human CD20, PerCyanine7 anti-human CD20, Alexa Fluor® 700 anti-human CD20, PerCP anti-human CD20, PerCP/Cyanine5.5 anti-human CD20, Brilliant Violet 421™ anti-human CD20, Brilliant Violet 570™ anti-human CD20, Brilliant Violet 655™ anti-human CD20, Brilliant Violet 650™ anti-human CD20, Brilliant Violet 785™ anti-human CD20, Brilliant Violet 711™ anti-human CD20, Purified anti-human CD20 (Maxpar® Ready), PE/Dazzle™ 594 anti-human CD20, Biotin anti-human CD20, APC/Fire™ 750 anti-human CD20, Alexa Fluor® 594 anti-human CD20, TotalSeq™-A0100 anti-human CD20, TotalSeq™-B0100 anti-human CD20, TotalSeq™-B0100 anti-human CD20, TotalSeq™-B0100 anti-human CD20, TotalSeq™-B0100 anti-human CD20, Spark YG™ 593 anti-human CD20, GMP FITC anti-human CD20, TotalSeq™-D0100 anti-human CD20, Spark Violet™ 538 anti-human CD20, GMP Pacific Blue™ anti-human CD20, GMP PerCP/Cyanine5.5 anti-human CD20, Spark Violet™ 538 anti-human CD20

Product Data



Typical results from human peripheral blood lymphocytes stained either with 2H7 PE/Cyanine7 at 5 μL/test (filled histogram) or with mouse lgG2b, κ FITC (open histogram).

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