

FITC anti-human CD20 Antibody

302303 / 25 tests Catalog# / Size

302304 / 100 tests

2H7 Clone

Workshop IV B201

Other Names B1, Bp35

Mouse IgG2b, κ Isotype

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, Baboon, Capuchin Monkey, Chimpanzee, Cynomolgus, Pigtailed Macaque, Rhesus, Squirrel

Antibody Type Monoclonal

Host Species Mouse

Human tonsillar B cells Immunogen

Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin Formulation

USA).

Preparation The antibody was purified by affinity chromatography, and conjugated with FITC under optimal

Concentration Lot-specific (please contact technical support for concentration and total µg amount, or use our Lookup

tool if you have a lot number.)

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

analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100

 μ I staining volume or 5 μ I per 100 μ I of whole blood.

Excitation Laser Blue Laser (488 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

Application References

(PubMed link indicates BioLegend citation)

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.

- 3. McMichael A, et al. Eds. 1987. Leucocyte Typing III Oxford University Press. New York.
- Polyak MJ, et al. 2002. Blood 99:3256. (IP)
- 5. Mack CL, et al. 2004. Pediatr. Res. 56:79. (IHC)

Product Citations

- Wong GK, et al. 2019. JCI Insight. 4. PubMed
- 2. Serra-Peinado C, et al. 2019. Nat Commun. 10:3705. PubMed
- Lin JR et al. 2018. eLife. 7 pii: e31657. PubMed
- 4. Rodriguez-Meira A et al. 2019. Molecular cell. 73(6):1292-1305 . PubMed
- Janela B et al. 2019. Immunity. 50(4):1069-1083 . PubMed
- Beyer Al, et al. 2017. Stem Cells Dev. 26:102. PubMed Martin GE, et al. 2018. Front Immunol. 1.019444444. PubMed

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 931

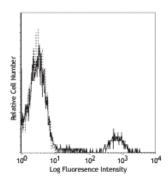
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

APC 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, Alexa Fluor® 488 anti-human CD20, Alexa Fluor® 647 anti-human CD20, Pacific Blue™ 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 605™ anti-human CD20, Brilliant Violet 785™ anti-human CD20, Brilliant Violet 510™ 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, FiTC anti-human CD20, TotalSeq™-A0100 anti-human CD20, TotalSeq™-C0100 anti-human CD20, Spark NIR™ 685 anti-human CD20

Product Data



Human peripheral blood lymphocytes were stained with anti-CD20 (clone 2H7) FITC (dark line), or mouse lgG2b, κ FITC (dashed line).

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