Brilliant Violet 605™ anti-human CD20

Catalog # / Size: 2111670 / 100 tests

2111665 / 25 tests

Clone: 2H7

Isotype: Mouse IgG2b, κ

Immunogen: Human tonsillar B cells

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography and conjugated with Brilliant Violet 605™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 605™ and

unconjugated antibody.

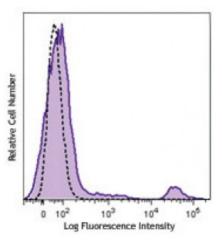
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and BSA

(origin USA).

Workshop Number: IV B201

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD20 (clone 2H7) Brilliant Violet 605™.

Applications:

Applications: Flow Cytometry

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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 605™ is a trademark of Sirigen Group Ltd.

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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:

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)

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

- 1. Hultin L, et al. 1993. Cytometry 14:196.
- References: 2. Tedder T, et al. 1994. Immunol. Today 15:450.