SONY

Product Data Sheet

Brilliant Violet 650™ anti-human CD19

Catalog # / Size: 2415130 / 100 tests
2415125 / 25 tests

Clone: SJ25C1

Isotype: Mouse IgG1, κ

Immunogen: NALM1 + NALM16 cells

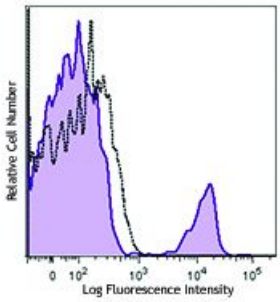
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: 750 under optimal conditions.

Concentration: Lot-specific



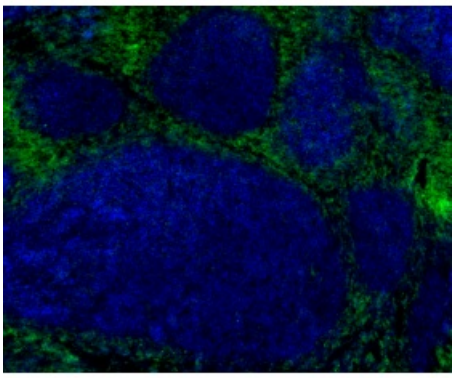
Human peripheral blood lymphocytes were stained with CD19 (clone SJ25C1) Brilliant Violet 650™ (filled histogram) or mouse IgG1, κBrilliant Violet 650™ isotype control (open histogram).

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

Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 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 650™ is a trademark of Sirigen Group Ltd.



Frozen human tonsil section was fixed with 4% paraformaldehyde (PFA) for ten minutes at room temperature and blocked with 5% FBS for 30 minutes at room temperature. Then the section was stained with 10 µg/ml of Brilliant Violet 421™ anti-human CD19 (clone SJ25C1) (blue) and 10 µg/ml of Alexa Fluor® 488 anti-human CD3 (clone UCHT1) (green) overnight at 4°C. The image was captured by 10X objective.

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Description: CD19 is a 95 kD type I transmembrane glycoprotein also known as B4. It is a member of the immunoglobulin superfamily expressed on B cells (from pro-B to blastoid B cells, absent on plasma cells) and follicular dendritic cells. CD19 is involved in B cell development, activation, and differentiation. CD19 forms a complex with CD21 (CR2) and CD81 (TAPA-1), and functions as a BCR co-receptor.

Antigen References:

1. Tedder T, *et al.* 1994. *Immunol. Today* 15:437.
2. Bradbury L, *et al.* 1993. *J. Immunol.* 151:2915.

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