Product Data Sheet

Spark YG™ 593 anti-human CD19

Catalog # / 2111400 / 100 tests

Size: 2111395 / 25 tests

Clone: HIB19

Isotype: Mouse IgG1, κ

Immunogen: CX3CR1-EGFP fusion protein

Reactivity: Human, Other

Preparation: The antibody was purified by affinity

chromatography and conjugated with

PE/Fire™ 640 under optimal

conditions.

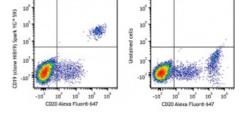
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA)

Workshop Number: V CD19.11

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD20 Alexa Fluor® 647 and CD19 (clone HIB19) Spark YG™ 593 (left) or CD20 Alexa Fluor® 647 only (right).

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 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.

* Spark YG™ 593 has a maximum excitation of 573 nm and a maximum

emission of 593 nm.

Application Notes:

Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections⁸ and blocking of B cell proliferation. Clone HIB19 is not recommended for formalin-fixed paraffin-embedded sections. The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 302267 & 302268).

Application References:

- 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. Bradbury L, et al. 1993. J. Immunol. 151:2915.
- 4. Joseph A, et al. 2010. J. Virol. 84:6645. PubMed
- 5. Wang X, et al. 2010. Haematologica. 95:884. (FC) PubMed
- 6. Walker JD, et al. 2009. J. Immunol. 182:1548. (Block) PubMed
- 7. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)
- 8. Hansen A, et al. 2002. Arthritis Rheum. 46:2160. (IHC)
- 9. Stoeckius M, et al. 2017. Nat. Methods. 14:865. (PG)
- 10. Peterson VM, et al. 2017. Nat. Biotechnol. 35:936. (PG)

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:

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