

Alexa Fluor® 647 anti-human CD19

Catalog # / Size: 2111100 / 100 tests
2111110 / 25 tests

Clone: HIB19

Isotype: Mouse IgG1, κ

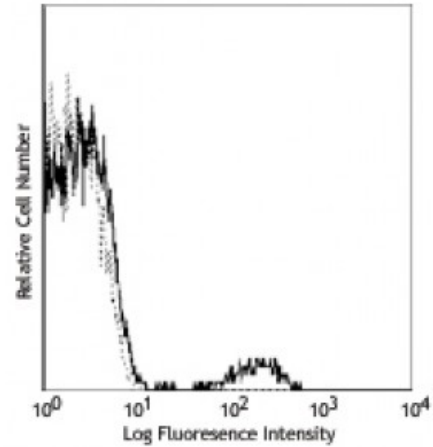
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 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

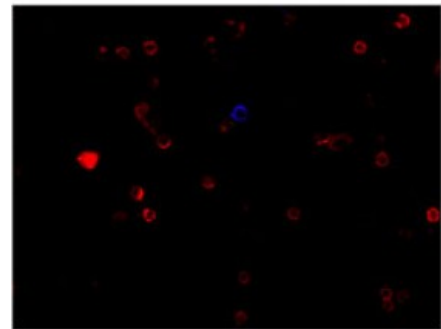


Human peripheral blood lymphocytes stained with HIB19 Alexa Fluor® 647

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



Human peripheral mononuclear cells were fixed with 2% paraformaldehyde (PFA), and then stained with 5 microg/ml CD56 (clone HCD56) Brilliant Violet 421™ (blue) and 5 microg/ml CD19 (clone HIB19) Alexa Fluor® 647 (red) for 30 minutes at room

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

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 LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 302214).

- Application References:**
- 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.
 - Bradbury L, *et al.* 1993. *J. Immunol.* 151:2915.
 - Joseph A, *et al.* 2010. *J. Virol.* 84:6645. [PubMed](#)
 - 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)
-

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