

**Alexa Fluor® 700 anti-human CD19**

**Catalog # / Size:** 2111130 / 100 µg  
2111125 / 25 µg

**Clone:** HIB19

**Isotype:** Mouse IgG1, κ

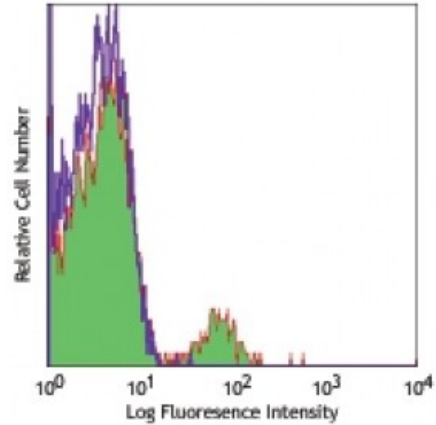
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 700 under optimal conditions.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Workshop Number:** V CD19.11

**Concentration:** 0.5



Human peripheral blood lymphocytes stained with HIB19 Alexa Fluor® 700

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The suggested use of this reagent is ≤1.0 microg per million cells in 100 microL volume. It is highly recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections<sup>8</sup> 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](#)
  - Walker JD, *et al.* 2009. *J. Immunol.* 182:1548. (Block) [PubMed](#)
  - Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
  - 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.