

## PerCP anti-human CD19

**Catalog # / Size:** 302227 / 25 tests  
302228 / 100 tests

**Clone:** HIB19

**Isotype:** Mouse IgG1,  $\kappa$

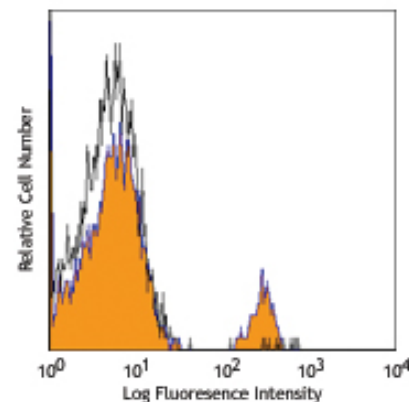
**Workshop Number:** V CD19.11

**Reactivity:** Human, **Cross-Reactivity:** Chimpanzee

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PerCP under optimal conditions. The solution is free of unconjugated PerCP and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with HIB19 PerCP

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5  $\mu$ l per million cells in 100  $\mu$ l volume or 5  $\mu$ l per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* PerCP has a maximum absorption of 482 nm and 564 nm and a maximum emission of 675 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections and blocking of B cell proliferation. The LEAF™ purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m 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)
- Zhu YY, *et al.* 2012. *PLoS One.* 7:e44131. PubMed.

**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.

| Related Products: | Product   | Clone   | Application   |
|-------------------|---|---------|---------------|
|                   | Cell Staining Buffer                                |         | FC, ICC, ICFC |
|                   | RBC Lysis Buffer (10X)                              |         | FC, ICFC      |
|                   | PerCP Mouse IgG1, $\kappa$ Isotype Ctrl             | MOPC-21 | FC, ICFC      |
|                   | Human TruStain FcX™ (Fc Receptor Blocking Solution) |         | FC, ICC, ICFC |



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