

Product Data Sheet

Purified anti-human CD19

Catalog # / Size: 302201 / 25 µg
302202 / 100 µg

Clone: HIB19

Isotype: Mouse IgG1, κ

Workshop Number: V CD19.11

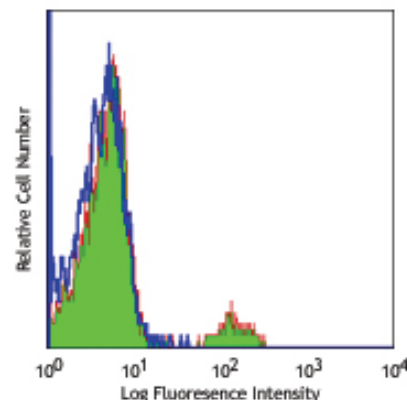
Reactivity: Human, **Cross-Reactivity:** Chimpanzee

Preparation: The antibody was purified by affinity chromatography.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Human peripheral blood lymphocytes stained with purified HIB19, followed by anti-mouse IgGs FITC

Applications:

Applications: FC - *Quality tested*
IHC - *Reported in the literature*
CyTOF® - *Validated*

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 ≤ 0.5 µg per 10⁶ cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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/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)

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
 Purified anti-human CD3
 Purified anti-human CD3
 Purified Mouse IgG1, κ Isotype Ctrl
 APC Goat anti-mouse IgG (minimal x-reactivity)
 Biotin Goat anti-mouse IgG (minimal x-reactivity)
 FITC Goat anti-mouse IgG (minimal x-reactivity)
 HRP Goat anti-mouse IgG (minimal x-reactivity)
 PE Goat anti-mouse IgG (minimal x-reactivity)
 Cell Staining Buffer
 RBC Lysis Buffer (10X)

Clone
 HIT3a
 UCHT1
 MOPC-21
 Poly4053
 Poly4053
 Poly4053
 Poly4053
 Poly4053

Application
 FC, IHC, IP
 FC, IHC, IP, WB, CyTOF®
 FC, ICFC, ICC, IF, IHC, IP, WB
 FC
 FC, ELISA, IHC, IF, WB
 FC
 ELISA, IHC, WB
 FC
 FC, ICC, ICFC
 FC, ICFC



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