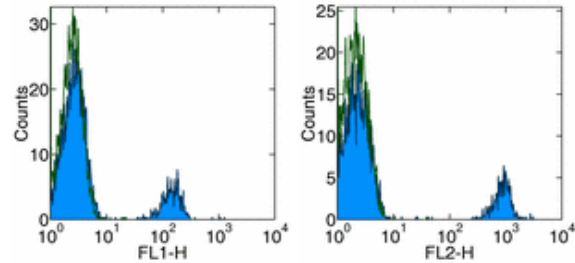


Product Information

Contents: Affinity Purified anti-human CD19
Catalog Number: 14-0199
Sizes: 25 ug, 100 ug
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃
Storage Conditions: Store at 4°C.
Avoid repeated freeze/thaw cycles.
Clone: HIB19
Isotype: Mouse IgG1, κ
HLDA No.: V CD19.11



Surface staining of normal human peripheral blood cells with anti-human CD19 (HIB19) FITC (left), and PE (right). Autofluorescence is indicated by open histogram. Cells in the lymphocyte population were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
10-0199	Allophycocyanin-Cy7 (APC-Cy7) anti-human CD19	633	760	FC
11-0199	FITC anti-human CD19	488	518	FC
12-0199	PE anti-human CD19	488	575	FC
13-0199	Biotin anti-human CD19	N/A	N/A	FC
14-0199	Affinity Purified anti-human CD19	N/A	N/A	FA FC IH/F
15-0199	PE-Cy5 anti-human CD19	488	670	FC
16-0199	Functional Grade* Purified anti-human CD19	N/A	N/A	FA FC
17-0199	APC anti-human CD19	633	660	FC
25-0199	Phycoerythrin-Cy7 (PE-Cy7) anti-human CD19	488	760	FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The HIB19 monoclonal antibody reacts with human CD19, a 95 kDa transmembrane glycoprotein. CD19 is expressed by B cells during all stages of development excluding the terminally differentiated plasma cells. Follicular dendritic cells also express CD19. Together CD21, CD81, Leu13, MHC class II, and CD19 form a multimolecular complex that associates with BCR. Signaling through CD19 induces tyrosine phosphorylation, calcium flux and proliferation of B cells.

Usage

For research use only, not for diagnostic or therapeutic use. The HIB19 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections. It has also been reported in *in vitro* functional studies. (Please use Functional Grade purified HIB19, cat. 16-0199, in functional assays.)

Applications Tested

The HIB19 antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at less than or equal to 1 μg per 100 μl blood (or per 1 million cells in 100 μl total staining volume). It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

- Cat. 10-0199 Allophycocyanin-Cy7 (APC-Cy7) anti-human CD19 (clone HIB19)
- Cat. 11-0199 FITC anti-human CD19 (clone HIB19)
- Cat. 12-0199 PE anti-human CD19 (clone HIB19)
- Cat. 13-0199 Biotin anti-human CD19 (clone HIB19)
- Cat. 15-0199 PE-Cy5 anti-human CD19 (clone HIB19)
- Cat. 17-0199 APC anti-human CD19 (clone HIB19)
- Cat. 25-0199 Phycoerythrin-Cy7 (PE-Cy7) anti-human CD19 (clone HIB19)
- Cat. 11-4011 FITC Anti-Mouse IgG
- Cat. 13-4013 Biotin Anti-Mouse IgG (clone Polyclonal)
- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
- Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
- Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
- Cat. 14-4714 Affinity Purified Mouse IgG1, K Isotype Control

References

Knapp, W., B. Dorken, et al. eds. (1989). *Leucocyte Typing IV: White Cell Differentiation Antigens*. Oxford University Press. New York.

Schlossman, S., L. Bloumsell, et al. eds (1995). *Leucocyte Typing V: White Cell Differentiation Antigens*. Oxford University Press. New York.