

# CD19 Monoclonal Antibody (HIB19), PE-Cyanine5, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIB19
Conjugate	PE-Cyanine5
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10853658

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	20 Publications

## Product Specific Information

**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. The SJ25C1 antibody and the HIB19 monoclonal antibody recognize overlapping epitopes.

**Applications Reported:** The HIB19 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This HIB19 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

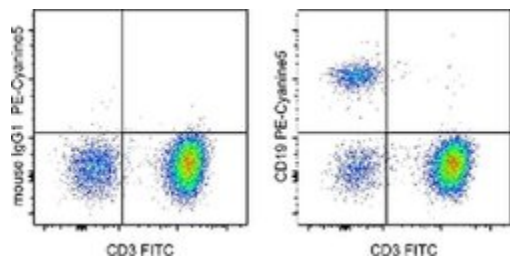
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD19 Monoclonal Antibody (HIB19), PE-Cyanine5, eBioscience™



### CD19 Antibody (15-0199-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD3 FITC (Product # 11-0038-42) and Mouse IgG1 K Isotype Control PE-Cyanine5 (Product # 15-4714-81) (left) or Anti-Human CD19 PE-Cyanine5 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

## 20 References

### Flow Cytometry (20)

Journal of immunology (Baltimore, Md. : 1950)

#### Influenza Vaccination Primes Human Myeloid Cell Cytokine Secretion and NK Cell Function.

"15-0199 was used in Flow cytometry/Cell sorting to study the effects of IL-15 stimulation on the active influenza vaccine and CIML NK cell functions using healthy human adults."

Authors: Wagstaffe HR, Pickering H, Houghton J, Mooney JP, Wolf AS, Prevatt N, Behrens RH, Holland MJ, Riley EM, Goodier MR

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2019

Genes and immunity

#### The Act1 D10N missense variant impairs CD40 signaling in human B-cells.

"Published figure using CD19 monoclonal antibody (Product # 15-0199-42) in Flow Cytometry"

Authors: Yu N, Lambert S, Bornstein J, Nair RP, Enerbäck C, Elder JT

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2019

[View more Flow references on thermofisher.com](#)

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