

# CD19 Monoclonal Antibody (HIB19), Alexa Fluor™ 700, 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), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIB19
Conjugate	Alexa Fluor™ 700
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_2043819

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	18 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:** This HIB19 antibody has been reported for use in flow cytometric analysis.

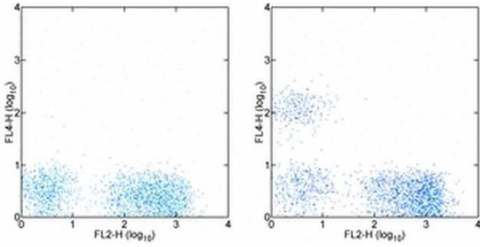
**Applications Tested:** This HIB19 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

**Excitation:** 633-647 nm; **Emission:** 723 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD19 Monoclonal Antibody (HIB19), Alexa Fluor™ 700, eBioscience™



### CD19 Antibody (56-0199-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD3 PE (Product # 12-0037-42) and Mouse IgG1 K Isotype Control Alexa Fluor® 700 (Product # 56-4714-80) (left) or Anti-Human CD19 Alexa Fluor® 700 (right). Cells in the lymphocyte gate were used for analysis.

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## Immunocytochemistry (1)

Arthritis & rheumatology (Hoboken, N.J.)

**The role of transforming growth factor signaling in fibroblast-like synoviocytes from patients with oligoarticular juvenile idiopathic arthritis: dysregulation of transforming growth factor signaling, including overexpression of bone morphogenetic protein 4, may lead to a chondrocyte phenotype and may contribute to bony hypertrophy.**

"Published figure using CD19 monoclonal antibody (Product # 56-0199-42) in Immunofluorescence"

Authors: Brescia AC, Simonds MM, McCahan SM, Fawcett PT, Rose CD

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2014

## Flow Cytometry (18)

European journal of immunology

**High-throughput compound screen reveals mTOR inhibitors as potential therapeutics to reduce (auto)antibody production by human plasma cells.**

"56-0199 was used in Flow cytometry/Cell sorting to explore novel therapeutic targets in signaling pathways essential for plasmablast formation and/or immunoglobulin production."

Authors: Tuijnenburg P, Aan de Kerk DJ, Jansen MH, Morris B, Lieftink C, Beijersbergen RL, van Leeuwen EMM, Kuijpers TW

**Species**  
Human  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2020

Genes and immunity

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

"Published figure using CD19 monoclonal antibody (Product # 56-0199-42) 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](#)

## More applications with references on thermofisher.com

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