

# CD19 Monoclonal Antibody (HIB19), NovaFluor™ Red 700, eBioscience™

## Product Details

Size	100 Tests
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	HIB19
Conjugate	NovaFluor™ Red 700
Excitation/Emission Max	637/701 nm
Form	Liquid
Concentration	5 µL/Test
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2896500

## Applications

Flow Cytometry (Flow)

## Tested Dilution

5 µL (0.1 µg)/test

## Publications

1 Publication

## 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 (0.1 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.

NovaFluor dyes are not compatible with DNA intercalating viability dyes. Do not use viability dyes such as propidium iodide, 7-actinomycin D (7-AAD) and DAPI. Invitrogen LIVE/DEAD Fixable Dead Cell stains are recommended for use with NovaFluor dyes.

Each NovaFluor conjugate or kit is shipped with CellBlox Blocking Buffer. Use this buffer whenever staining with NovaFluor conjugates, including single-color compensation controls using cells. Whenever possible, we recommend adding CellBlox Blocking Buffer to antibody cocktails/master mixes prior to combining with cells. Add 5 µL per sample (regardless of the number of NovaFluors in your panel) to use the antibody cocktail as intended. For single-color controls, use 5 µL of CellBlox Blocking Buffer per 100µL of cell sample containing 10<sup>3</sup> to 10<sup>8</sup> cells.

Excitation: 639 nm; Emission: 700 nm; Laser: 633-640 nm (Red) Laser

NovaFluor conjugates are based on Phiton™ technology utilizing novel nucleic acid dye structures that allow for engineered fluorescent signatures with consideration for spillover and spread impacts. Learn more

1 Reference

Flow Cytometry (1)

Scientific reports

Glycerol monolaurate inhibition of human B cell activation.

Authors: Fosdick MG,Loftus S,Phillips I,Zacharias ZR,Houtman JCD

Year  
2022

Species  
Human

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