

CD21 Monoclonal Antibody (HB5), Super Bright™ 600, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HB5
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744836

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/Test	2 Publications

Product Specific Information

Description: The HB5 monoclonal antibody reacts with human CD21, an approximately 145 kDa type I transmembrane protein. CD21 is expressed by mature B cells, folliculate dendritic cells and a subset of epithelial cells and is a receptor for complement component C3d and Epstein-Barr virus (EBV). CD21, in association with CD19 and CD81, participates in the multimolecular complex with BCR and is involved in B cell activation.

Applications Reported: This HB5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HB5 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may 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 10⁵ to 10⁸ cells/test.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

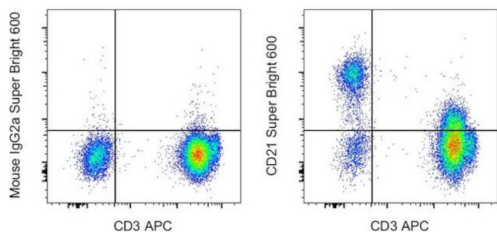
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD21 Monoclonal Antibody (HB5), Super Bright™ 600, eBioscience™



CD21 Antibody (63-0219-42) in Flow

Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, APC (Product # 17-0038-42) and Mouse IgG2a kappa Isotype Control, Super Bright 600 (Product # 63-4724-82) (left) or CD21 Monoclonal Antibody, Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

2 References

Flow Cytometry (2)

Cell

Functional SARS-CoV-2-Specific Immune Memory Persists after Mild COVID-19.

"63-0219 was used in Flow cytometry/Cell sorting to perform a longitudinal assessment of individuals recovered from mild COVID-19 to determine whether they develop and sustain multifaceted SARS-CoV-2-specific immunological memory."

Authors: Rodda LB, Netland J, Shehata L, Pruner KB, Morawski PA, Thouvenel CD, Takehara KK, Eggenberger J, Hemann EA, Waterman HR, Fahning ML, Chen Y, Hale M, Rathe J, Stokes C, Wrenn S, Fiala B, Carter L, Hamerman JA, King NP, Gale M, Campbell DJ, Rawlings DJ, Pepper M

Year
2021

Species
Human

The Journal of experimental medicine

Deregulated Notch and Wnt signaling activates early-stage myeloid regeneration pathways in leukemia.

"Published figure using CD21 monoclonal antibody (Product # 63-0219-42) in Flow Cytometry"

Authors: Kang YA, Pietras EM, Passequé E

Year
2020

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