

CD27 Monoclonal Antibody (O323), Super Bright™ 600, eBioscience™

Product Details

Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	O323
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_2662723

Applications

Flow Cytometry (Flow)

Tested Dilution

5 µL (0.25 µg)/test

Publications

4 Publications

Product Specific Information

Description: The O323 monoclonal antibody reacts with human CD27, a lymphocyte-specific member of the TNFR superfamily. CD27 is expressed by a subset of thymocytes and virtually all mature T cells and is upregulated upon T-cell stimulation. CD27 binds to CD70, and through this interaction, plays an important role in T cell-B cell interaction.

Applications Reported: This O323 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This O323 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 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. Protect this vial and stained samples from light.

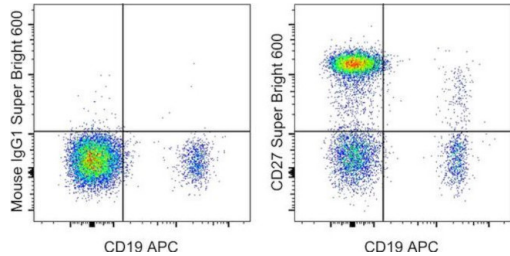
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-

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: 405 nm; Emission: 600 nm; Laser: Violet Laser

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

Product Images For CD27 Monoclonal Antibody (O323), Super Bright™ 600, eBioscience™



CD27 Antibody (63-0279-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD19 APC (Product # 17-0199-42) and Mouse IgG1 K Isotype Control Super Bright 600 (Product # 63-4714-82) (left) or Anti-Human CD27 Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

4 References

Flow Cytometry (4)

Cell discovery	Year 2023
More than one antibody of individual B cells revealed by single-cell immune profiling.	
"Published figure using CD27 monoclonal antibody (Product # 63-0279-42) in Flow Cytometry"	
Authors: Shi Z,Zhang Q,Yan H,Yang Y,Wang P,Zhang Y,Deng Z,Yu M,Zhou W,Wang Q,Yang X,Mo X,Zhang C,Huang J,Dai H,Sun B,Zhao Y,Zhang L,Yang YG,Qiu X	
Frontiers in immunology	Year 2023
Oxygen level is a critical regulator of human B cell differentiation and IgG class switch recombination.	
"Published figure using CD27 monoclonal antibody (Product # 63-0279-42) in Flow Cytometry"	
Authors: Koers J,Marsman C,Steuten J,Tol S,Derksen NIL,Ten Brinke A,van Ham SM,Rispens T	

View more Flow references on thermofisher.com

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