

# CD27 Monoclonal Antibody (O323), PE, 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, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	O323
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10718394

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	23 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.

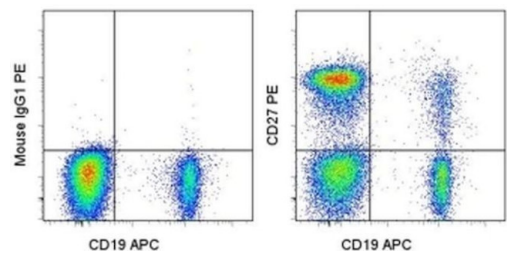
**Applications Reported:** The O323 antibody has been reported for use in flow cytometric analysis.

**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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For CD27 Monoclonal Antibody (O323), PE, eBioscience™



**CD27 Antibody (12-0279-42) in Flow**  
Staining of normal human peripheral blood cells with Anti-Human CD19 APC (Product # 17-0199-42) and Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (left) or Anti-Human CD27 PE (right). Cells in the lymphocyte gate were used for analysis.

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📄 24 References

Immunocytochemistry (1)

<p>Journal of immunology research</p> <p><b>Effect of Leflunomide on the Abnormal Expression of Lipid Rafts and F-Actin in B Lymphocytes from Patients with Systemic Lupus Erythematosus.</b></p> <p>"12-0279 was used in Immunofluorescence to demonstrate that the modulation of B cell expression by leflunomide could be a potential therapeutic target for systemic lupus erythematosus."</p> <p>Authors: Dong GF,Zhang X,He DN,Li L,Zhang GF</p>	<p>Year 2016</p> <p>Species Human</p>
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Flow Cytometry (23)

<p>Cell discovery</p> <p><b>More than one antibody of individual B cells revealed by single-cell immune profiling.</b></p> <p>"Published figure using CD27 monoclonal antibody (Product # 12-0279-42) in Flow Cytometry"</p> <p>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</p>	<p>Year 2023</p>
<p>Frontiers in immunology</p> <p><b>Oxygen level is a critical regulator of human B cell differentiation and IgG class switch recombination.</b></p> <p>"Published figure using CD27 monoclonal antibody (Product # 12-0279-42) in Flow Cytometry"</p> <p>Authors: Koers J,Marsman C,Steuten J,Tol S,Derksen NIL,Ten Brinke A,van Ham SM,Rispens T</p>	<p>Year 2023</p>

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