

# CD43 Monoclonal Antibody (eBio84-3C1 (84-3C1)), PE-Cyanine7, 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), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio84-3C1 (84-3C1)
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_2815104

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	8 Publications

## Product Specific Information

**Description:** The monoclonal antibody eBio84-3C1 reacts with CD43, which is also known as leukosialin, galactoglycoprotein and sialophorin. CD43 is a sialomucin which like many mucins can have both adhesive and anti-adhesive functions. Expression of CD43 is found on most leukocytes except resting B lymphocytes. Proteolytic processing upon activation decreases surface expression. CD43 is involved in activation of T cells, B cells, NK cells, and monocytes. The counter-receptor for CD43 is CD169/SIGLEC-1, which is expressed on macrophages.

**Applications Reported:** This eBio84-3C1 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This eBio84-3C1 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

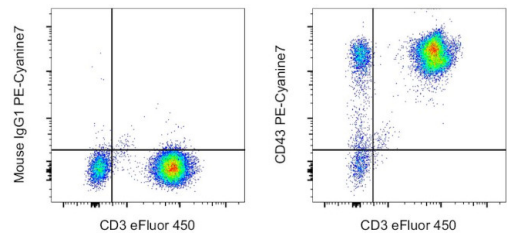
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser

Product Images For CD43 Monoclonal Antibody (eBio84-3C1 (84-3C1)), PE-Cyanine7, eBioscience™



**CD43 Antibody (25-0439-42) in Flow**  
Normal human peripheral blood cells were stained with CD3 Monoclonal Antibody, eFluor 450 (Product # 48-0038-42) and Mouse IgG1 kappa Isotype Control, PE-Cyanine7 (Product # 25-4714-80) (left) or CD43 Monoclonal Antibody, PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

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8 References

Flow Cytometry (8)

STAR protocols	Year 2021
<b><i>In vitro</i> differentiation of human embryonic stem cells to hemogenic endothelium and blood progenitors via embryoid body formation.</b>	
"Published figure using CD43 monoclonal antibody (Product # 25-0439-42) in Flow Cytometry"	
Authors: Garcia-Alegria E,Potts B,Menegatti S,Kouskoff V	
Journal of human genetics	Year 2019
<b>Verification and rectification of cell type-specific splicing of a Seckel syndrome-associated ATR mutation using iPS cell model.</b>	
"Published figure using CD43 monoclonal antibody (Product # 25-0439-42) in Flow Cytometry"	
Authors: Ichisima J,Suzuki NM,Samata B,Awaya T,Takahashi J,Hagiwara M,Nakahata T,Saito MK	

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