

CD4 Monoclonal Antibody (SK3 (SK-3)), PE-Cyanine5.5, eBioscience™

Product Details	
Size	25 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-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SK3 (SK-3)
Conjugate	PE-Cyanine5.5
Excitation/Emission Max	564/692 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_11219673

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	8 Publications

Product Specific Information

Description: The SK3 monoclonal antibody reacts with human CD4, a 59-kDa cell surface receptor expressed by a majority of thymocytes, a subpopulation of mature T helper cells, and at low levels on monocytes. CD4 is a receptor for the human immunodeficiency virus (HIV). SK3 blocks HIV binding and mixed lymphocyte reaction. The SK3 and RPA-T4 monoclonal antibodies do not cross-block binding, suggesting recognition of distinct epitopes.

Applications Reported: This SK3 (SK-3) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This SK3 (SK-3) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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.

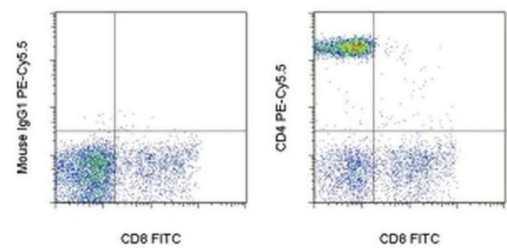
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) 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: 695 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Product Images For CD4 Monoclonal Antibody (SK3 (SK-3)), PE-Cyanine5.5, eBioscience™



CD4 Antibody (35-0047-41) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD8a FITC (Product # 11-0088-42) and Mouse IgG1 K Isotype Control PE-Cyanine5-5 (Product # 35-4714-82) (left) or Anti-Human CD4 PE-Cyanine5-5 (right). Cells in the lymphocyte gate were used for analysis.

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8 References

Flow Cytometry (8)

Experimental hematology & oncology	Year
Interleukin-6-knockdown of chimeric antigen receptor-modified T cells significantly reduces IL-6 release from monocytes.	2022
"Published figure using CD4 monoclonal antibody (Product # 35-0047-42) in Flow Cytometry"	
Authors: Kang L,Tang X,Zhang J,Li M,Xu N,Qi W,Tan J,Lou X,Yu Z,Sun J,Wang Z,Dai H,Chen J,Lin G,Wu D,Yu L	
Frontiers in immunology	Year
Activation of Bone Marrow Adaptive Immunity in Type 2 Diabetes: Rescue by Co-stimulation Modulator Abatacept.	2021
"35-0047-42 was used in Flow Cytometry to identify the role of Abatacept in reducing the demonstrated T cell activation in the bone marrow of type 2 diabetes patients and mice."	Species
Authors: Santopaolo M,Sullivan N,Thomas AC,Alvino VV,Nicholson LB,Gu Y,Spinetti G,Kallikourdis M,Blom A,Madeddu P	Human

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