CD3/CD4/CD8a Antibody Cocktail, APC, FITC, PerCP-eFluor™ 710, eBioscience™

Product Details

Size	25 Tests
Species Reactivity	Human
Published Species	Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Class	Cocktail
Type	Antibody
Clone	SK3, SK7, SK1
Conjugate	APC , FITC , PerCP-eFluor™ 710
Form	Liquid
Concentration	20 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_10671078

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	20 µL/test	4 Publications

Product Specific Information

Description: This three-color cocktail is designed to identify T cells from peripheral blood samples. It can be used alone, or in combination with other antibodies to further characterize T cell populations. 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 in low levels on monocytes. CD4 is a receptor for the human immunodeficiency virus (HIV). The SK7 monoclonal antibody reacts with human CD3 eplison, a 20 kDa subunit of the CD3/TCR complex. The CD3 complex, including the epsilon, gamma and delta subunits, is required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. The SK1 monoclonal antibody reacts with the human CD8a molecule, an approximately 32-34 kDa cell surface receptor expressed either as a heterodimer with the CD8beta chain (CD8alpha beta) or as a homodimer (CD8alphaalpha). A majority of thymocytes and a subpopulation of mature T cells and NK cells express CD8a.

This cocktail contains the following antibodies:

Anti-Human CD4 (SK3) FITC

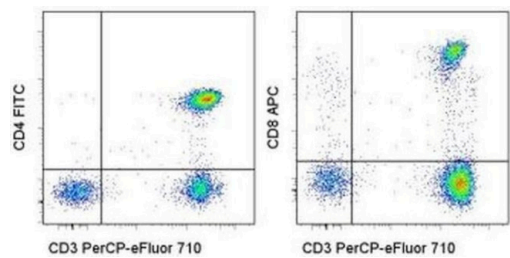Anti-Human CD3 (SK7) PerCP-eFluor® 710

Anti-Human CD8a (SK1) APC

Applications Reported: eZfluor Anti-Human CD4 FITC, CD3 PerCP-eFluor® 710, CD8a APC has been reported for use in flow cytometric analysis.

Applications Tested: eZfluor Anti-Human CD4 FITC, CD3 PerCP-eFluor® 710, CD8a APC has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 20 µL per test, which contains 0.06 µg of

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Anti-Human CD4 FITC, 0.06 μg of Anti-Human CD3 PerCP-eFluor® 710, and 0.25 μg of Anti-Human CD8a APC. A test is defined as the amount 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 10^5 to 10^8 cells/test.

Product Images For CD3/CD4/CD8a Antibody Cocktail, APC, FITC, PerCP-eFluor™ 710, eBioscience™

CD3/CD4/CD8a Antibody (22-0306-71) in Flow
Staining of normal human peripheral blood cells with eZfluor Anti-Human CD4 FITC, CD3 PerCP-eFluor® 710, CD8a APC. Red blood cells were lysed using the 10X RBC Lysis Buffer (Multi-Species) (Product # 00-4300-54). Cells in the lymphocyte gate were used for analysis.

🔖 4 References

Flow Cytometry (4)

iScience

Recurrent visceral leishmaniasis relapses in HIV co-infected patients are characterized by less efficient immune responses and higher parasite load.

"22-0306-71 was used in Flow cytometry/Cell sorting to show that the relapse-free survival in patients with recurrent VL/HIV was shorter, that they had higher parasite load, lower weight gain, and lower recovery of all blood cell lineages."

Authors: Takele Y,Mulaw T,Adem E,Womersley R,Kaforou M,Franssen SU,Levin M,Taylor GP,Müller I,Cotton JA,Kropf P

Year
2023

Species
Human

Cell reports. Medicine

Immunological factors, but not clinical features, predict visceral leishmaniasis relapse in patients co-infected with HIV.

"22-0306-71 was used in Flow Cytometry to identify three immunological markers associated with visceral leishmaniasis relapse in VL/HIV patients."

Authors: Takele Y,Mulaw T,Adem E,Shaw CJ,Franssen SU,Womersley R,Kaforou M,Taylor GP,Levin M,Müller I,Cotton JA,Kropf P

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Species
Human

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