

# CD4 Monoclonal Antibody (SK3 (SK-3)), NovaFluor Red 700, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	SK3 (SK-3)
Conjugate	NovaFluor™ Red 700
Form	Liquid
Concentration	2 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	2 µL (0.1 µg)/test	-

## 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 2 µL (0.1 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.

NovaFluor dyes are not compatible with DNA intercalating viability dyes. Do not use viability dyes such as propidium iodide, 7-actinomycin D (7-AAD) and DAPI. Invitrogen LIVE/DEAD Fixable Dead Cell stains are recommended for use with NovaFluor dyes.

Each NovaFluor conjugate or kit is shipped with CellBlox Blocking Buffer. Use this buffer whenever staining with NovaFluor conjugates, including single-color compensation controls using cells. Use 5 µL of CellBlox Blocking Buffer per stained cell sample containing 10<sup>3</sup> to 10<sup>8</sup> cells.

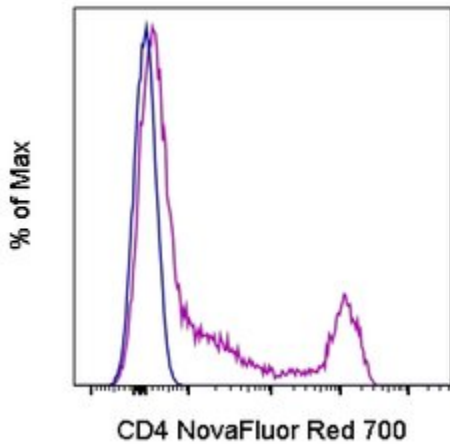
**Excitation:** 639 nm; **Emission:** 700 nm; **Laser:** 633-640 nm (Red) Laser

NovaFluor conjugates are based on Phiton™ technology utilizing novel nucleic acid dye structures that allow for engineered fluorescent signatures with consideration for spillover and spread impacts. Learn more

## Product Images For CD4 Monoclonal Antibody (SK3 (SK-3)), NovaFluor Red 700, eBioscience™

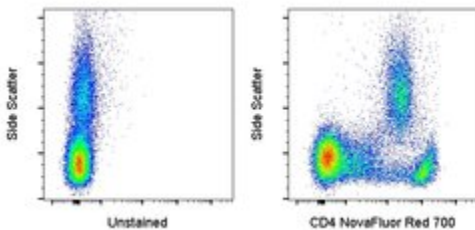
### CD4 Antibody (H001T03R03) in Flow

Normal human peripheral blood cells were either left unstained (blue histogram) or stained with CD4 Monoclonal Antibody, NovaFluor Red 700 (Product # H001T03R03) (purple histogram) and acquired in the R3 channel on a 5-laser Cytex Aurora. Cells in the lymphocyte gate were used in the analysis.



### CD4 Antibody (H001T03R03) in Flow

Staining of normal human peripheral blood cells with side scatter and unstained (left) or CD4 Monoclonal Antibody, NovaFluor Red 700 (Product # H001T03R03) (right). Data was acquired in the R3 channel on a 5-laser Cytex Aurora and singlet cells were used for analysis.



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