

cFluor™ BYG750 Anti-Human CD4 (SK3)

PRODUCT DETAILS	
Catalog Number:	R7-20159 (100 tests) R7-20160 (25 tests)
Reactivity:	Human
Clone:	SK3
Format:	cFluor™ BYG750
Isotype:	Mouse IgG1, κ
Volume Per Test:	5 µL / test
Application:	Flow cytometry
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% BSA (Origin USA)
Storage:	2-8°C and protected from light. Do not freeze

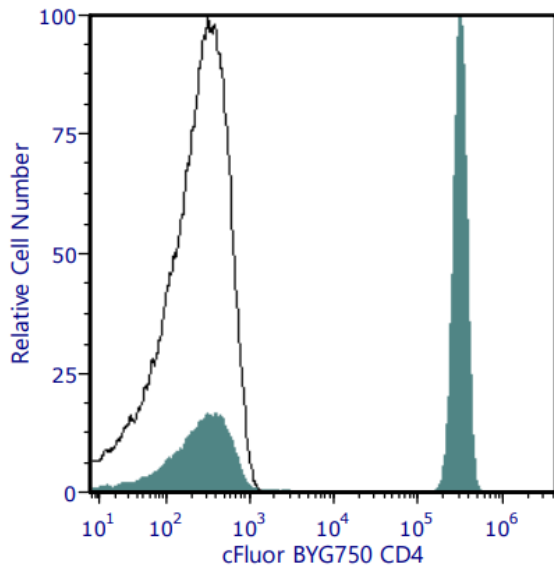
PRODUCT DESCRIPTION

The SK3 monoclonal antibody binds to human CD4, a 59-kDa type I transmembrane glycoprotein in the immunoglobulin superfamily. The CD4 molecule is expressed predominantly on thymocytes and a subpopulation of mature T-helper lymphocytes. It is also present on monocytes at low levels^{1,3}. CD4 plays a role in cell-cell interaction by acting as a co-receptor for MHC class II in antigen recognition. CD4 also has been shown to bind glycoprotein 120 on external envelope of HIV². The antibody was conjugated to a fluorophore and purified by affinity chromatography.

RECOMMENDED USAGE

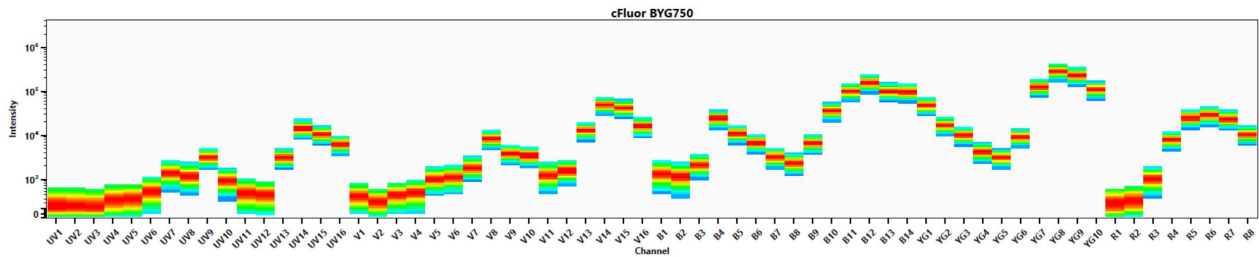
Each lot of this antibody is quality control tested using flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per 1 million cells in a staining volume of 100 µL. If whole blood is analyzed, then use 5 µL per 100 µL. It is recommended that users titrate the antibody to obtain the optimal result for their specific application.

PRODUCT DATA



Human peripheral blood was stained with cFluor™ BYG750 Anti-Human CD4 (clone SK3) (filled histogram) or cFluor™ BYG750 mouse IgG1, κ isotype control (open histogram). Data shown is gated on lymphocytes.

Spectral signature of cFluor™ BYG750 from a Cytek® Aurora 5 laser system equipped with 355 nm, 405 nm, 488 nm, 561 nm and 640 nm lasers using CytekAssaySettings.



REFERENCES

1. Evans RL, et al. 1981. Immunol. 78:544
2. Arno A et al. 1999. J. Infect. Dis. 180:56
3. Muench M, et al. 1997. Blood 89:1364

For Research Use Only. Not intended for use in diagnostic procedures.