

## cFluor<sup>™</sup> V547 Anti-Human CD4 (SK3)

PRODUCT DETAILS	
<b>Catalog Number:</b>	R7-20167 (100 tests) R7-20168 (25 tests)
<b>Reactivity:</b>	Human
<b>Clone:</b>	SK3
<b>Format:</b>	cFluor <sup>™</sup> V547*
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Volume Per Test:</b>	5 $\mu$ L / test
<b>Application:</b>	Flow cytometry
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% BSA (Origin USA)
<b>Storage:</b>	2-8°C and protected from light. <b>Do not freeze</b>

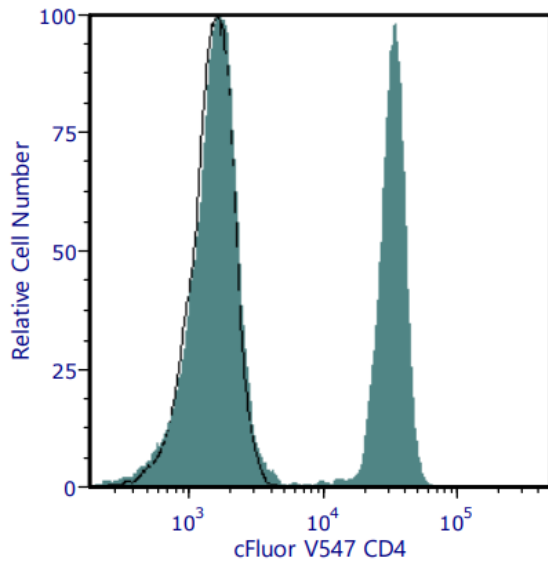
### PRODUCT DESCRIPTION

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<sup>1,3</sup>. 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 HIV<sup>2</sup>. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

### RECOMMENDED USAGE

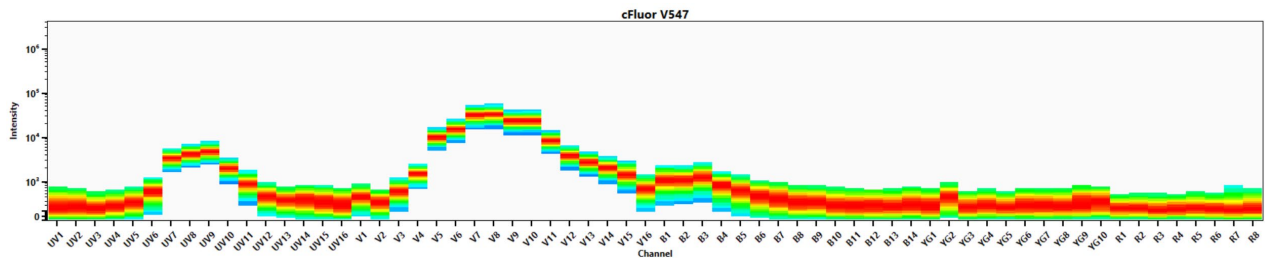
Each lot of this antibody is quality control tested using flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5  $\mu$ L per 1 million cells in a staining volume of 100  $\mu$ L. If whole blood is analyzed, then use 5  $\mu$ L per 100  $\mu$ L. It is recommended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

PRODUCT DATA



Human peripheral blood was stained with cFluor™ V547 Anti-Human CD4 (clone SK3) (filled histogram) or cFluor™ V547 mouse IgG1, κ isotype control (open histogram). Data shown is gated on lymphocytes.

Spectral signature of cFluor™ V547 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.**

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