

## cFluor<sup>®</sup> BYG750 Anti-Human CD4 (SK3)

PRODUCT DETAILS	
<b>Catalog Number:</b>	R7-20159 (100 tests) R7-20160 (25 tests)
<b>Reactivity:</b>	Human
<b>Clone:</b>	SK3
<b>Format:</b>	cFluor <sup>®</sup> BYG750 <sup>1</sup>
<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 saline, pH 7.2, containing 0.09% sodium azide and 0.2% BSA (BSA Country of 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.

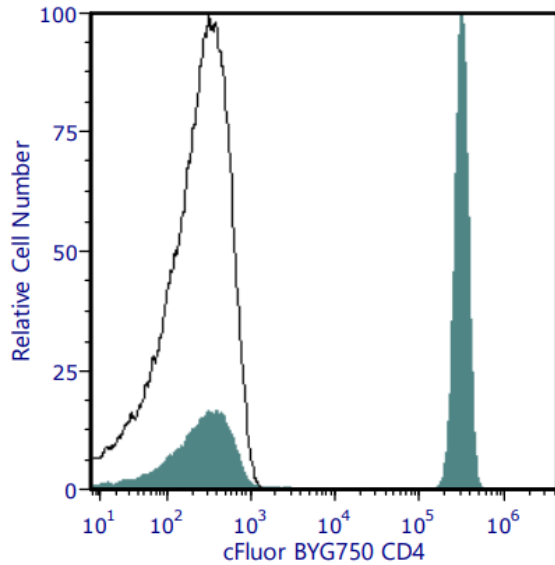
### RECOMMENDED USAGE

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.

Please briefly centrifuge the reagent vial before use.

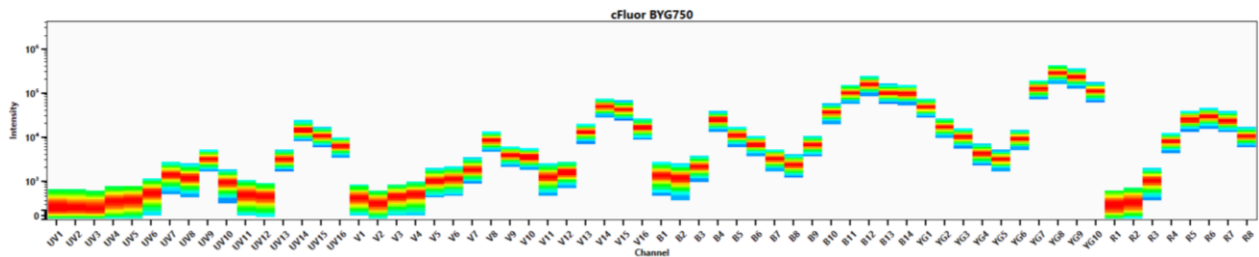
Use appropriate personal protective equipment per the product safety data sheet when using this product.

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 Cytex® Aurora 5 laser system equipped with 355 nm, 405 nm, 488 nm, 561 nm and 640 nm lasers using CytexAssaySettings.



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

<sup>1</sup>cFluor® BYG750 is a tandem dye made with R-PE. Caution – Tandem dyes may show changes in their emission spectra with prolonged exposure to light or fixatives.

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