

## cFluor<sup>®</sup> B548 Anti-Human CD8 (SK1)

PRODUCT DETAILS	
<b>Catalog Number:</b>	R7-20097 (100 tests) R7-20098 (25 tests)
<b>Reactivity:</b>	Human, Cross-Reactivity: African Green, Chimpanzee, Cynomolgus, Pigtailed Macaque, Rhesus, Sooty Mangabey
<b>Clone:</b>	SK1
<b>Format:</b>	cFluor <sup>®</sup> B548*
<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>

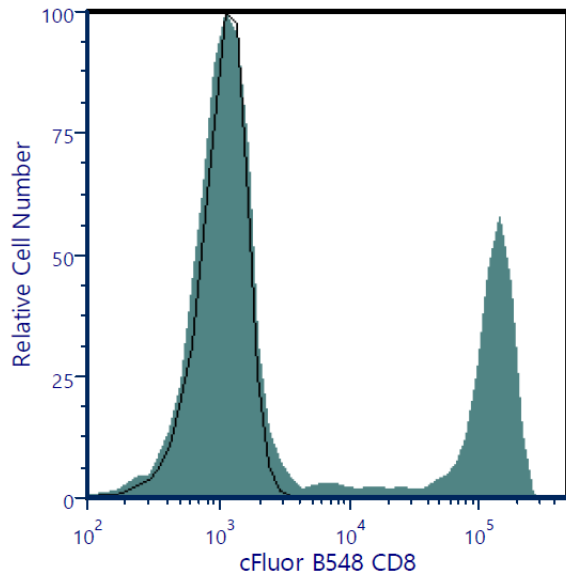
### PRODUCT DESCRIPTION

The SK1 monoclonal antibody binds to human CD8a, a 32-34-kDa type I glycoprotein that forms either as an  $\alpha/\alpha$  homodimer or  $\alpha/\beta$  heterodimer with its isoform CD8b. CD8 is found on thymocytes, a subset of peripheral blood T cells, majority expressing  $\alpha/\beta$  heterodimer, and NK cells, majority expressing  $\alpha/\alpha$  homodimer<sup>(1)</sup>. CD8 plays a role in antigen recognition and class I MHC-restricted T cell development. CD8 functions are associated with two domains of CD8a. CD8a ectodomain binding to the  $\alpha 3$  domain of MHC class I increases the adhesion between CD8+ T lymphocytes and target cells. The cytoplasmic tail binding to the tyrosine kinase p56<sup>lck</sup> contributes to signal transduction and T cell activation A<sup>(2)(3)</sup>. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

### RECOMMENDED USAGE

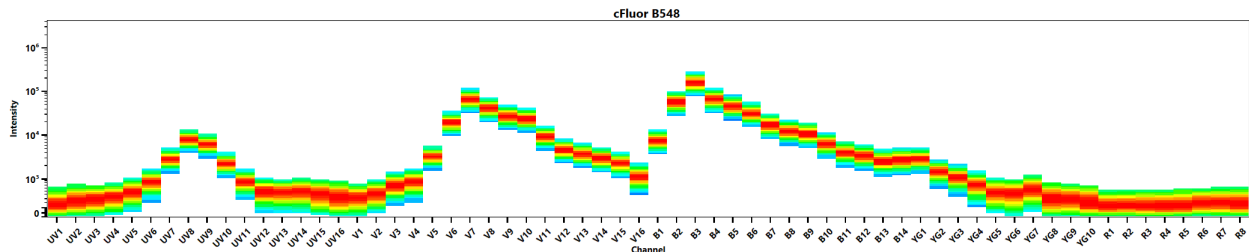
Each lot of this antibody is quality control tested using flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5  $\mu$ L per 1 million cells in a staining volume of 100  $\mu$ L. If whole blood is analyzed, then use 5  $\mu$ L per 100  $\mu$ L. It is recommended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

**PRODUCT DATA**



Human peripheral blood was stained with cFluor® B548 Anti-Human CD8 (clone SK1) (filled histogram) or cFluor® B548 mouse IgG1, κ isotype control (open histogram). Data shown is gated on lymphocytes.

Spectral signature of cFluor® B548 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. Cole DK, et al. 2004. Cell Mol Immunol. 1(2):81-8
2. Kern Petra S. et al. 1009. Immunity. 519-530
3. Veillette A. et al. 1988. Cell. 55:301-308

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

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