

cFluor[®] R668 Anti-Human CD3 (UCHT1)

PRODUCT DETAILS	
Catalog Number:	R7-20139 (100 tests) R7-20140 (25 tests)
Reactivity:	Human, Cross-Reactivity: Chimpanzee
Clone:	UCHT1
Format:	cFluor [®] R668*
Isotype:	Mouse IgG1, κ
Volume Per Test:	5 μ L / test
Application:	Flow cytometry
Formulation:	Phosphate-buffered saline, pH 7.2, containing 0.09% sodium azide and 0.2% BSA (BSA Country of Origin USA)
Storage:	2-8°C and protected from light. Do not freeze

PRODUCT DESCRIPTION

The UCHT1 monoclonal antibody binds to human epsilon chain of the CD3 antigen/T-cell antigen receptor, a 20 to 30-kDa protein complex. This complex contains a CD3 γ , a CD3 δ , a CD3 ζ (CD247), two CD3 ϵ , and a T-cell receptor (α/β or γ/δ) heterodimer ⁽¹⁾. CD3 is found on all mature T cells, NK T cells and thymocytes. It plays a role in recognizing antigen, activating cytotoxic T cell and T helper cell, and signal transduction ⁽²⁾. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

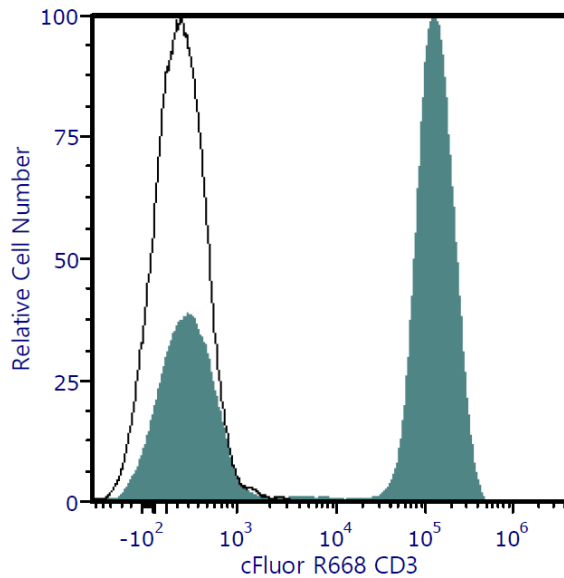
RECOMMENDED USAGE

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 μ L per 1 million cells in a staining volume of 100 μ L. If whole blood is analyzed, then use 5 μ L per 100 μ 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.

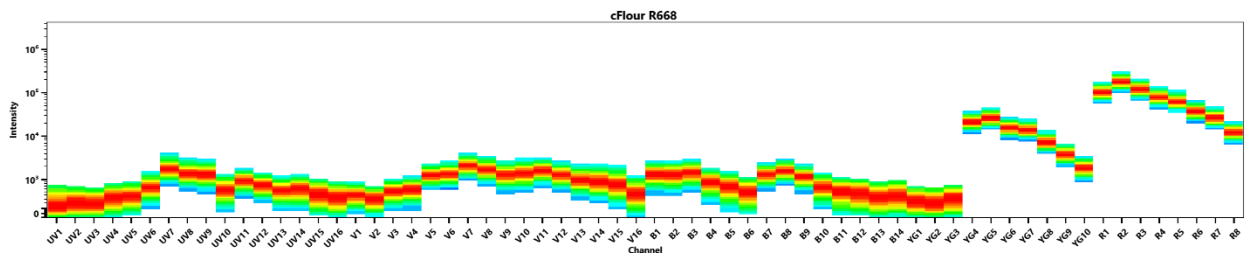
Use appropriate personal protective equipment per the product safety data sheet when using this product.

PRODUCT DATA



Human peripheral blood was stained with cFluor® R668 Anti-Human CD3 (clone UCHT1) (filled histogram) or cFluor® R668 mouse IgG1, κ isotype control (open histogram). Data shown is gated on lymphocytes.

Spectral signature of cFluor® R668 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. Dong, D., et al. 1981. Nature. 573, 546–552
2. Weiss A, et al. 1991. Semin Immunol. (5):313-24

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