

cFluor[®] R668 Anti-Human CD7 (CD7-6B7)

PRODUCT DETAILS	
Catalog Number:	R7-20029 (100 tests) R7-20030 (25 tests)
Reactivity:	Human
Clone:	CD7-6B7
Format:	cFluor [®] R668*
Isotype:	Mouse IgG2a, κ
Test Dilution:	5 μL / 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 CD7-6B7 monoclonal antibody binds to human CD7, a 40-kDa type I transmembrane glycoprotein in the immunoglobulin superfamily. CD7, also known as GP40, is found on T cells, NK cells, thymocytes, and pre-B cells¹. CD7 is called T cell leukemia antigen for its expression on acute lymphocytic leukemia and some acute myeloid leukemia². Studies show that cross-linking of CD7 significantly increases CD7-associated PI3-kinase activity, suggesting the antigen's functional role in inducing calcium flux in T lymphocytes, and T and NK cell activation³. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

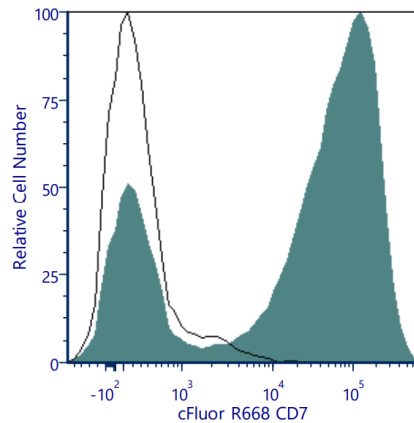
RECOMMENDED USAGE

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.

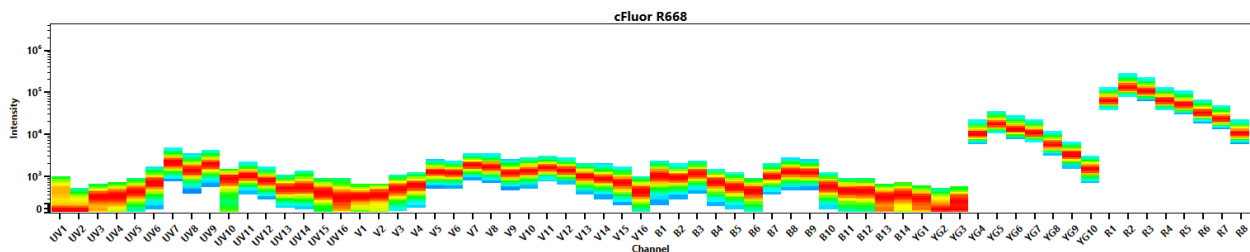
Please briefly centrifuge the reagent vial before use.

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

PRODUCT DATA



Human peripheral lymphocytes stained with cFluor® R668 CD7 (clone CD7-6B7) (filled histogram) or mouse cFluor® R668 IgG2a, κ isotype control (open histogram).



Spectral signature of cFluor® R668 from a Cytek® Aurora 5 laser system equipped with 355, 405, 488, 561 and 640 nm lasers using CytekAssaySetting.

REFERENCES

1. Rabinowich H, 1994. J Immunol. 152(2):517-526.
2. Aruffo A, et al. 1987. EMBO J. 6(11):3313-3316.
3. Lee DM, et al. 1996. Int Immunol. 8(8):1195-1203.

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