

cFluor® R780 Anti-Human CD45 (2D1)

PRODUCT DETAILS	
Catalog Number:	R7-20133 (100 tests) R7-20134 (25 tests) R7-20407 (100 tests) R7-20408 (25 tests)
Reactivity:	Human
Clone:	2D1
Format:	cFluor® R780 ¹
Isotype:	Mouse IgG1, κ
Volume Per Test:	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 2D1 monoclonal antibody binds to isoforms of human CD45, a 180-240-kDa type I membrane glycoprotein, also known as LCA (leukocyte common antigen). CD45 is the first and prototypic receptor-like protein tyrosine phosphatase that expresses on all human leukocytes^{1,2}. It is absent on mature erythrocytes, platelets, and non-hematopoietic cells. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

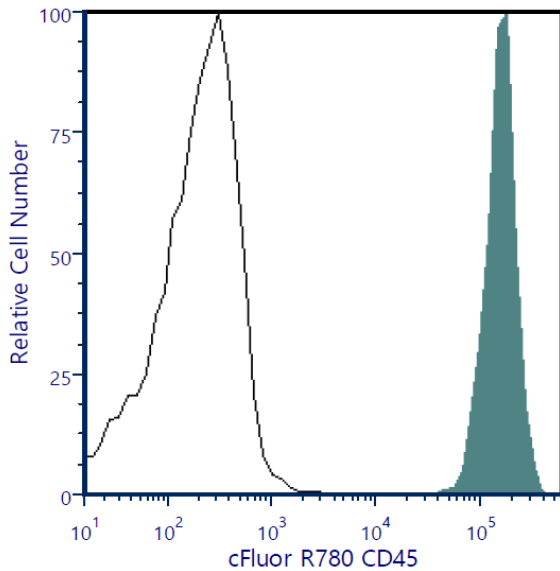
RECOMMENDED USAGE

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.

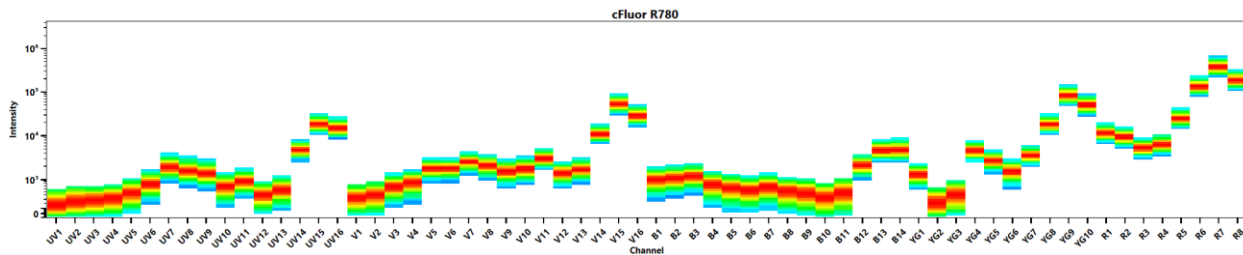
Use appropriate personal protective equipment per the product safety data sheet when using this product.

PRODUCT DATA



Human peripheral blood was stained with cFluor® R780 Anti-Human CD45 (clone 2D1) (filled histogram) or cFluor® R780 mouse IgG1, κ isotype control (open histogram). Data shown is gated on lymphocytes.

Spectral signature of cFluor® R780 from a Cytex® Aurora 5 laser system equipped with 355, 405, 488, 561 and 640 nm lasers using CytexAssaySetting.



REFERENCES

1. Terry LA, et al. 1990. Immunology. 64:331
2. Hermiston ML, et al. 2003. Annu Rev Immunol. 21:107

¹cFluor® R780 is a tandem dye made with APC. 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.