

## cFluor® B515 Anti-Human CD141 (M80)

PRODUCT DETAILS	
<b>Catalog Number:</b>	R7-20113 (100 tests) R7-20114 (25 tests)
<b>Reactivity:</b>	Human, African Green, Baboon
<b>Clone:</b>	M80
<b>Format:</b>	cFluor® B515*
<b>Isotype:</b>	Mouse IgG1, κ
<b>Volume Per Test:</b>	5 µL / 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 M80 monoclonal antibody binds to human CD141, a 75-kDa type I membrane glycoprotein. CD141, also known as thrombomodulin, BDCA-3, and fetomodulin, binds to its ligand, thrombin, to form a thrombin-thrombomodulin complex. This complex activates protein C and initiates the Protein C anticoagulant pathway<sup>1,2</sup>. When bound to CD141, thrombin loses its ability to activate several pro-coagulant proteins<sup>3</sup>. The molecule is expressed on macrophages, monocytes, dendritic cells, and vascular endothelial cells. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

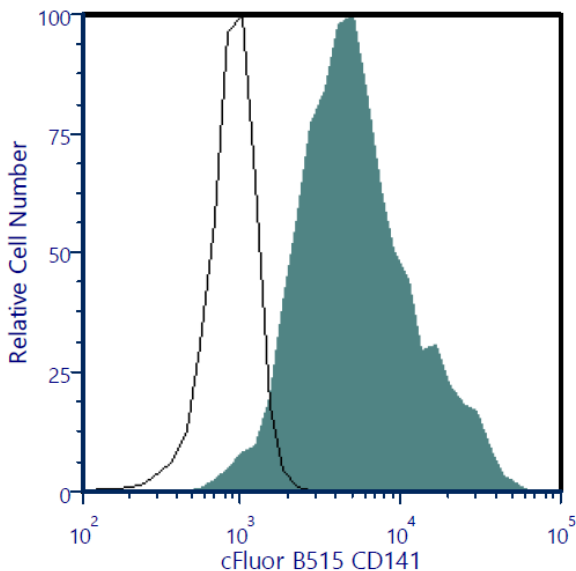
### RECOMMENDED USAGE

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.

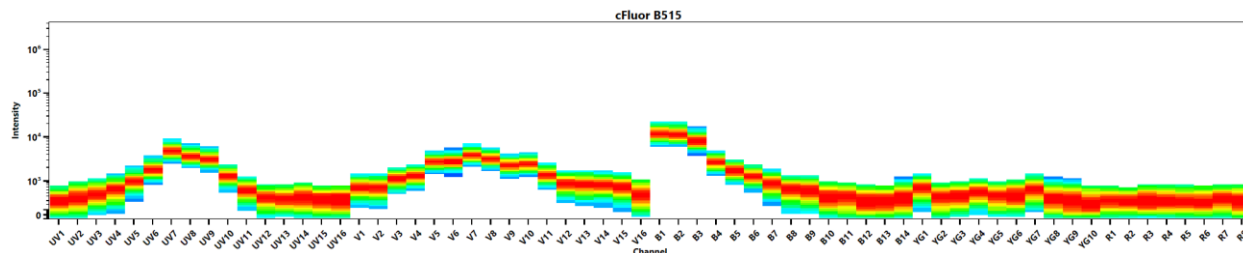
Use appropriate personal protective equipment per the product safety data sheet when using this product.

PRODUCT DATA



Human peripheral blood was stained with cFluor® B515 Anti-Human CD141 (clone M80) (filled histogram) or cFluor® B515 mouse IgG1, κ isotype control (open histogram). Data shown is gated on monocytes.

Spectral signature of cFluor® B515 from a Cytek® Aurora 5 laser system equipped with 355, 405, 488, 561 and 640 nm lasers using CytekAssaySetting.



REFERENCES

1. Sadler JE. Et al. 1997. Thromb Haemost. 78(1):392-5
2. Bajzar L, et al. 1996. J Biol Chem. 271(28):16603-8
3. Teasdale MS, et al. 1994. Immunol Cell Biol. 72(6):480-8

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