

## cFluor™ R668 Anti-Human CD16 (3G8)

PRODUCT DETAILS	
<b>Catalog Number:</b>	R7-20069 (100 tests) R7-20070 (25 tests)
<b>Reactivity:</b>	Human, Baboon, Capuchin Monkey, Chimpanzee, Common Marmoset, Cynomolgus, Pigtailed Macaque, Rhesus, Sooty Mangabey, Squirrel Monkey
<b>Clone:</b>	3G8
<b>Format:</b>	cFluor™ R668*
<b>Isotype:</b>	Mouse IgG1, κ
<b>Volume Per Test:</b>	5 µL / 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>

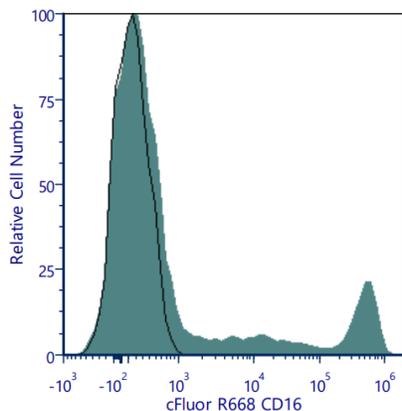
### PRODUCT DESCRIPTION

The 3G8 monoclonal antibody binds to IgG receptor III (FcγRIII) that are in two forms: CD16a ((FcγRIIIA) and CD16b ((FcγRIIIB). With 95% sequence similarity, they are a conventional 50-65 kD polypeptide-anchored transmembrane protein and a 48 kD GPI-anchored protein, respectively. CD16a is expressed on NK cells and macrophages while CD16b is expressed on neutrophils<sup>1,2</sup>. CD16a also plays a crucial role for antibody-dependent cellular cytotoxicity (ADCC) by NK cells<sup>3</sup>. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

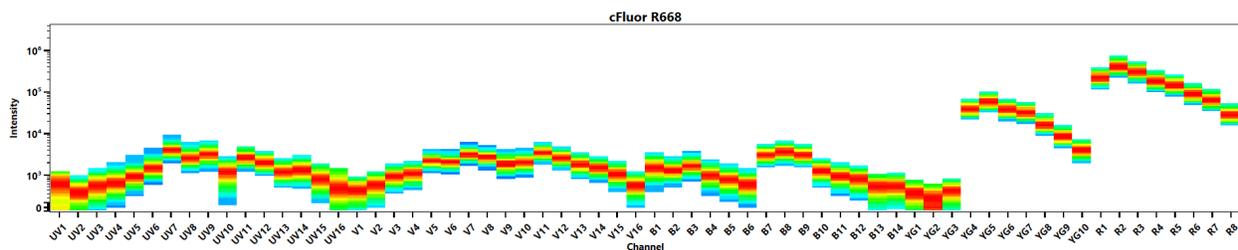
### RECOMMENDED USAGE

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 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.

## PRODUCT DATA



Human peripheral blood was stained with cFluor™ R668 CD16 (clone 3G8) (filled histogram) or mouse cFluor™ R668 IgG1, κ isotype control (open histogram). Data shown is gated on lymphocytes.



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

## REFERENCES

1. Wirthmueller U, et al. 1992. J Exp Med. 175:1381
2. Smed-Sørensen A, et al. 2008. Blood. 111:5037
3. Wei H Y, et al, 2016. Sci Rep. 6:34310

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

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