

## CD16 (3G8)

Type	Number of tests	Volume per test (μL)	Total volume (μL)	Catalog number
APC iFluor™700	50	5	250	6014172
	100	5	500	6014175
iFluor™700	50	5	250	6014192
	100	5	500	6014195
mFluor™450	50	5	250	6014142
	100	5	500	6014145

**Antigen:** CD16  
**Immunogen:** Human peripheral blood T lymphocytes  
**Host/Isotype:** Mouse, IgG1,κ  
**Reactivity:** Human, Rhesus, Cynomolgus, Baboon  
**Purity:** >90% pure tested via polyacrylamide gel electrophoresis (PAGE)  
**Formulation:** PBS, pH7.2, 0.09% NaN<sub>3</sub> and 0.2% (w/v) BSA  
**Storage:** Store at 2-8°C and protected from prolonged exposure to light. **Do not freeze.**  
**Applications:** Flow Cytometry.

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### Application Information

Each lot was pre-titrated and tested by flow cytometric analysis so that 5μl of this product will stain 1 million cells in a 100μl staining volume or 100μl of whole blood. Antibody reactivity should be empirically titrated for optimal performance for the application of interest.

### Antigen Information

CD16 (3G8) binds to the 50-65 kDa transmembrane protein of IgG FcγRIII, a surface antigen commonly associated with human NK cells. Besides surface expression on NK cells, it is also expressed on activated monocytes, macrophages, on neutrophils and placental trophoblasts in humans. CD16 binds aggregated IgG or IgG-antigen complexes which functions in NK cell activation, phagocytosis, and antibody-dependent cell-mediated cytotoxicity (ADCC). 3G8 is also useful in experiments related to immunohistochemical staining, immunoprecipitation, NK cell proliferation, blocking of phagocytosis and blocking of immunoglobulin binding through FcγRIII.

### References

1. Deaglio et al, 2002, *Blood*. 99(7):2490-8.
2. Fleit et al, 1982. *Proc Natl Acad Sci U S A*. 1982; 79(10):3275-3279.
3. Da Silva et al. 2001. *Int. Immunol.* 13:633.
4. Edberg et al. 1997. *J. Immunol.* 159:3849
5. Hoshino et al. 1991. *Blood* 78:3232.
6. Tamm et al. 1996. *Immunol.* 157:1576.

### Terms and Conditions

This is a GMP product meant for research use only (RUO) and not intended for diagnostic testing.