Caprico Biotechnologies

TECHNICAL DATA SHEET

CD16 (3G8)

Type	Size	Catalog number
Unconjugated	100µg	101401
	500µg	101403
FITC	25 tests	101414
	100 tests	101415
	200 tests	101416
PE	25 tests	101424
	100 tests	101425
	200 tests	101426
APC	25 tests	101444
	100 tests	101445
	200 tests	101446
PerCP-Cyanine 5.5	25 tests	101464
	100 tests	101465
	200 tests	101466
iFluor™ 700	25 tests	1014194
	100 tests	1014195
	200 tests	1014196
mFluor™ 450	25 tests	1014144
	100 tests	1014145
	200 tests	1014146
Biotin	100µg	101451

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_3 (unconjugated, Biotin)
PBS, pH7.2, 0.09% NaN_3 and 0.2% (w/v) BSA (conjugated)
Storage: Store at 2-8°C and protected from prolonged exposure to light. **Do not freeze.**
Applications: Flow Cytometry

Application Information

Each lot of these antibodies has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 0.5µg (unconjugated, Biotin) or 5µl (conjugated) of these products are sufficient for staining 1 million cells in a 100µl staining volume or 100µl of whole blood. It is recommended to titrate antibody reactivity empirically for optimal performance. Non-human primate cross-reactivity has been validated using Caprico's APC conjugated clone 3G8 product.

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Antigen Information

The clone 3G8, a mouse monoclonal antibody, binds to the 50-65 kDa transmembrane protein of IgG FcγRIII known as CD16, a surface antigen commonly associated with human NK cells. In addition to surface expression on NK cells, CD16 is expressed on activated monocytes, macrophages, neutrophils, and placental trophoblasts in humans. 3G8 binds either with the aggregated IgG or IgG-antigen complex which functions in NK cell activation, phagocytosis, and antibody-dependent cell-mediated cytotoxicity (ADCC).

References

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

Terms and Conditions

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

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