

Mouse anti Human CD16, FITC
Clone 3G8
Cat. no. MON 1187F

Specificity

CD16 (FCGR3A) is a 50-65 kDa cell surface molecule that exists in two forms - a transmembranous form expressed by NK cells and some T cells, and a phosphatidylinositol linked form expressed by granulocytes. CD16 is a low affinity receptor for IgG (FcR III), and is an important receptor mediating ADCC by NK cells. Human CD16 is expressed in two forms – FCGR3A and FCGR3B. FCGR3A is associated with the FcepsilonRI-gamma subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell FCGR3A is associated, with FcepsilonRI-beta subunit. Besides IgG, FCGR3A can be triggered also by oligomeric IgE. FCGR3B is a GPI-linked monomeric receptor expressed on neutrophils and is involved in their activation and induction of a pro-adhesive phenotype. Diseases associated with CD16 dysfunction include immunodeficiency 20 and systemic lupus erythematosus.

Immunogen: Human CD16

Immunoglobulin type

Mouse IgG1

Use

This antibody can be used for flow cytometry (recommended dilution is assay dependent).

Presentation

0.5 ml purified antibody (approximately 0.2 mg/ml), conjugated to FITC, in Phosphate Buffer Saline (PBS) solution containing 4 mg/ml BSA and 0.1% sodium azide.

References

- Fleit, H.B., et al., 1982, Proc. nat. Acad. Sci. USA 79, 3275.
- Perussia, B., et al., 1984, J. Immunol. 133, 180.
- Huizinga, T.W.J., et al., 1988, Nature 333, 667.
- Lanier, L.L., et al., 1988, J. Immunol. 141, 3478.
- Simmons, D., et al., 1988, Nature 333, 568.

Storage

Store antibody, in the dark, at 2-8°C until expiry date.

FOR RESEARCH USE ONLY, NOT FOR DRUG, DIAGNOSTIC OR OTHER USE.

08/19 **MONOSAN** Cat.# MON 1187F

FOR-044 31-03-2016