



CD16 Antibody [2.4G2] (FITC)

CATALOG NUMBER: 76-579

Specifications

SPECIES REACTIVITY:	Mouse
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The 2.4G2 monoclonal antibody specifically reacts with an epitope on the extracellular domain of the mouse CD16 (Fc gamma III) and CD 32 (Fc gamma II).
HOST SPECIES:	Rat

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
CONCENTRATION:	0.5 mg/mL
STORAGE CONDITIONS:	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Rat IgG2b
CONJUGATE:	FITC

Additional Info

ALTERNATE NAMES:	Fcgr3, Fcgr3
OFFICIAL SYMBOL:	Fcgr3
GENE ID:	14131

Background

BACKGROUND:	The 2.4G2 monoclonal antibody specifically reacts with an epitope on the extracellular domain of the mouse CD16 (Fc gamma III) and CD 32 (Fc gamma II). CD16 and CD32 are low affinity receptors for the IgG Fc domain and are expressed by B lymphocytes, NK cells, kupffer cells, mast cells, monocytes, macrophages, granulocytes, immature thymocytes, neutrophils, and some activated mature T cells. The 2.4G2 antibody blocks the binding of immunoglobulins to CD16 and CD32, and possibly to Fc gamma I receptor.
REFERENCES:	<p>1) Choi, E. I., Wang, R., Peterson, L., Letvin, N. L., Reimann, K. A. (2008). Use of an anti CD16 antibody for in vivo depletion of natural killer cells in rhesus macaques. <i>Immunology</i>, 124(2), 215-222.</p> <p>2) Perussia, B. I. C. E., Trinchieri, G. I. O. R. G. I. O. (1984). Antibody 3G8, specific for the human neutrophil Fc receptor, reacts with natural killer cells. <i>The Journal of Immunology</i>, 132(3), 1410-1415.</p> <p>3) Vossebeld, P. J., Homburg, C. H., Roos, D., Verhoeven, A. J. (1997). The anti-Fc-gamma RIII mAb 3G8 induces neutrophil activation via a cooperative action of Fc-gamma RIIIb and Fc-gamma RIIa. <i>The international journal of biochemistry cell biology</i>, 29(3), 465-473.</p>

