



CD16/CD32 Antibody [2.4G2]

CATALOG NUMBER: 76-575

Specifications

SPECIES REACTIVITY:	Mouse
TESTED APPLICATIONS:	FACS, Func, IF, IP
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. The endotoxin level is determined by LAL test to be less than 0.01 EU/μg of the protein.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, pH7.2.
CONCENTRATION:	2 mg/mL
STORAGE CONDITIONS:	The product should be stored undiluted at 4°C . Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Rat IgG2b
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	Fcgr3, Fcgr2b, Fcgr3, Fcgr2b
OFFICIAL SYMBOL:	Fcgr3; Fcgr2b
GENE ID:	14131; 14130

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) Araujo-Jorge, T. A. N. I. A., Rivera, M. T., el Bouhidi, A. Y. A. C. H. I., Daron, M. A. R. C., Carlier, Y. (1993). An Fc gamma RII-, Fc gamma RIII-specific monoclonal antibody (2.4 G2) decreases acute Trypanosoma cruzi infection in mice. Infection and immunity, 61(11), 4925-4928.</p> <p>2) Jensen, W. A., Marschner, S., Ott, V. L., Cambier, J. C. (2001). Fc gamma RIIB-mediated inhibition of T-cell receptor signal transduction involves the phosphorylation of SH2-containing inositol 5-phosphatase (SHIP), dephosphorylation of the linker of activated T-cells (LAT) and inhibition of calcium mobilization. Biochemical Society Transactions, 29(Pt 6), 840-846.</p> <p>3) Vremec, D., Zorbas, M., Scollay, R., Saunders, D. J., Ardavin, C. F., Wu, L., Shortman, K. (1992). The surface phenotype of dendritic cells purified from mouse thymus and spleen: investigation of the CD8 expression by a</p>

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December 13, 2016