Data Sheet (Cat.No.TMAY-03088A)

TargetMol

Anti-CD64 Antibody-APC (8F637)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	APC
Clone:	8F637
Purification:	Protein A

Applications

Verified Activity:	Flow cytometric analysis of Mouse FCGR1(CD64) expression on Raw264.7 cells. Cells were stained with APC-conjugated anti-Mouse FCGR1(CD64). The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
Application:	FCM
Recommended	5 μl/Test, 0.1 mg/ml

Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight. Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Mouse CD64 / FCGR1 protein (TMPY-01205)
Antigen Species:	Mouse
Synonyms:	Fc gamma RI;Fc γ RI;CD64;Fc receptor, IgG, high affinity I
Biology Area:	Fc Receptors

Research Background

High affinity immunoglobulin gamma Fc receptor I, also known as FCGR1 and CD64, is an integral membraneglycoprotein and a member of the immunoglobulin superfamily. CD64 is a high affinity receptor for the Fc region of IgG gamma and functions in both innate and adaptive immune responses. Receptors that recognize the Fc portion of IgG function in the regulation of immune response and are divided into three classes designated CD64, CD32, and CD16. CD64 is structurally composed of asignal peptidethat allows its transport to the surface of a cell, threeextracellularimmunoglobulin domainsof the C2-type that it uses to bind antibody, a hydrophobictransmembrane domain, and a short cytoplasmic tail. CD64 isconstitutivelyfound on only macrophages and monocytes, but treatment of polymorphonuclear leukocyteswith cytokines likeIFNγandG-CSFcan induce CD64 expression on these cells. The inactivation of the mouse CD64 resulted in a wide range of defects in antibody Fc-dependent functions. Mouse CD64 is an early participant in Fc-dependent cell activation and in the development of immune responses.

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