

SM1152FT**Monoclonal Antibody to CD64 / FCGR1A - FITC**

Alternate names:	Fc-gamma RI, Fc-gamma RIA, FcRI, FcgammaRIa, High affinity immunoglobulin gamma Fc receptor I, IgG Fc receptor I
Quantity:	25 µg
Concentration:	0.1 mg/ml
Background:	CD64 is a 75kD molecule expressed by monocytes, interferon gamma stimulated granulocytes, myelomonocytic leukaemias and myeloid cell lines.
Uniprot ID:	P12314
NCBI:	NP_000557.1
GeneID:	2209
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10F (for use in human samples)
Clone:	10.1
Immunogen:	Human monocytes. Remarks: Spleen cells from immunised BALB/c mice were fused with cells of the mouse Sp2/0-Ag14 myeloma cell line.
Format:	State: Liquid purified IgG fraction. Purification: Affinity Chromatography on Protein G Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of Neat-1/10 diluted antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the CD64 cell surface glycoprotein. Species: Human, Cynomolgus Monkey, Baboon and Rhesus Monkey. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Dougherty, G. et al. (1987) The human mononuclear phagocyte high-affinity Fc receptor, FcRI, defined by a monoclonal antibody, 10.1. Eur. J. Immunol. 17: 1453-1459. 2. Beekman, J.M. et al. (2004) Direct interaction between FcgammaRI (CD64) and periplakin controls receptor endocytosis and ligand binding capacity. Proc Natl Acad Sci U S A.101: 10392-7.

3. Tanaka, M. et al. (2009) Activation of Fc gamma RI on monocytes triggers differentiation into immature dendritic cells that induce autoreactive T cell responses. *J Immunol.* 183: 2349-55.

4. Yoshino, N. et al. (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of Cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp. Anim.* 49 (2): 97-110.

Pictures:

Staining of human peripheral blood monocytes with Mouse anti Human CD64 antibody FITC conjugated (SM1152F)

