

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
Catalog No.:	SM1152FT
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
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 References:	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.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

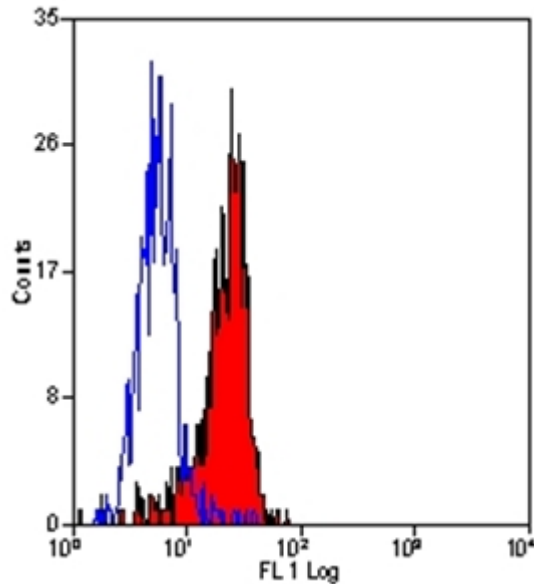
Proc Natl Acad Sci U S A.101: 10392-7.

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)

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