



Datasheet for ABIN1302463
anti-FCGR1A antibody



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Overview

Quantity:	0.1 mg
Target:	FCGR1A
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FCGR1A antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Rheumatoid synovial fluid cells and fibronectin purified human monocytes
Clone:	10-1
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 10.1 recognizes an extracellular epitope on CD64/FcgammaRI, a 72 kDa single chain type I glycoprotein, that is expressed on monocytes/macrophages, dendritic cells, and activated granulocytes. The epitope is sensitive to formalin fixation.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	FCGR1A
Alternative Name:	CD64 (FCGR1A Products)
Background:	Fc fragment of IgG receptor Ia,CD64 (FcgammaRI) is a cell surface receptor for Fc region of IgG. It is composed of specific ligand binding alpha subunit and promiscuous gamma subunit, which is indispensable for tyrosine-based signaling. However, even the alpha subunit can transduce signals leading to cellular effector functions. The isoform FcgammaRIa1 binds human IgG with high affinity, has limited myeloid cell distribution, and a relatively large intracellular domain. Products of related genes include FcgammaRIb and FcgammaRIc isoforms, but these specify low affinity IgG receptors if functionally expressed at all. Besides a role in antigen clearance, FcgammaRI (a1) can potently enhance MHC class I and II antigen presentation in vitro and in vivo.,FcRI, IGFR1, FcGR1A
Gene ID:	2209
UniProt:	P12314
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Product cited in:

Devaraj, Davis, Simon, Jialal: "CRP promotes monocyte-endothelial cell adhesion via Fcγ receptors in human aortic endothelial cells under static and shear flow conditions." in: **American journal of physiology. Heart and circulatory physiology**, Vol. 291, Issue 3, pp. H1170-6, (2006) ([PubMed](#)).

Devaraj, Du Clos, Jialal: "Binding and internalization of C-reactive protein by Fcγ receptors on human aortic endothelial cells mediates biological effects." in: **Arteriosclerosis, thrombosis, and vascular biology**, Vol. 25, Issue 7, pp. 1359-63, (2005) ([PubMed](#)).

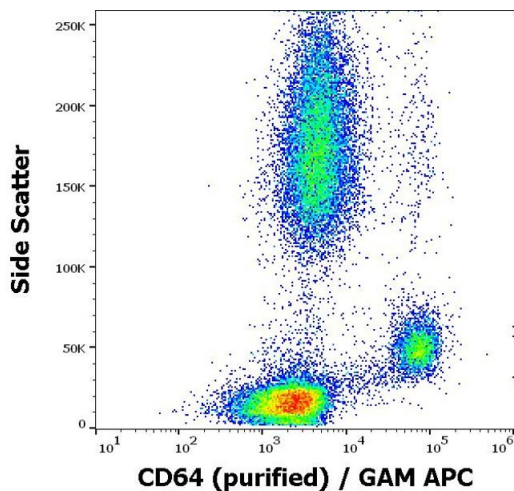
Roura-Mir, Wang, Cheng, Matsunaga, Dascher, Peng, Fenton, Kirschning, Moody: "Mycobacterium tuberculosis regulates CD1 antigen presentation pathways through TLR-2." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 175, Issue 3, pp. 1758-66, (2005) ([PubMed](#)).

Beekman, Bakema, van der Linden, Tops, Hinten, van Vugt, van de Winkel, Leusen: "Modulation of FcγRI (CD64) ligand binding by blocking peptides of periplakin." in: **The Journal of biological chemistry**, Vol. 279, Issue 32, pp. 33875-81, (2004) ([PubMed](#)).

Brichard, Varis, Latinne, Deneys, de Bruyere, Leveugle, Cornu: "Intracellular cytokine profile of cord and adult blood monocytes." in: **Bone marrow transplantation**, Vol. 27, Issue 10, pp. 1081-6, (2001) ([PubMed](#)).

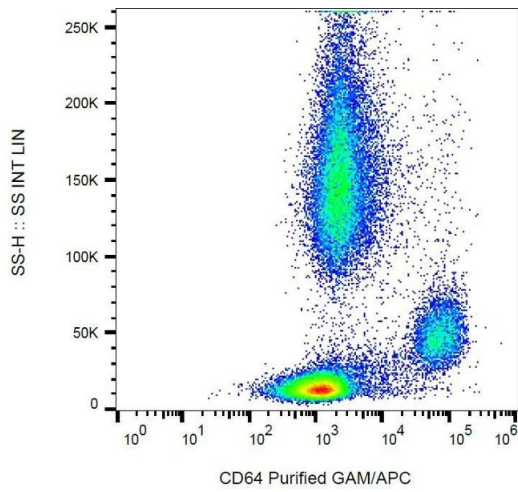
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Images



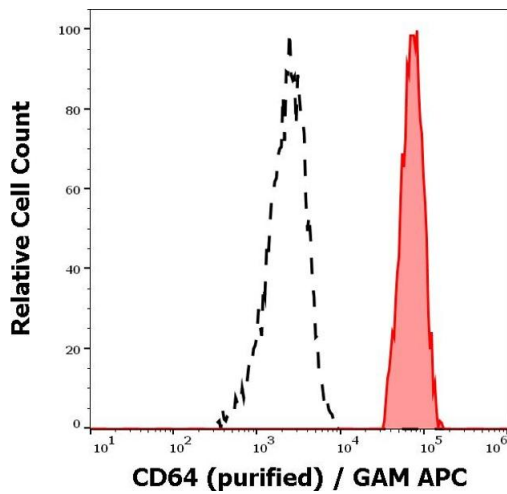
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD64 (10.1) purified antibody (concentration in sample 4 µg/mL) GAM APC.



Flow Cytometry

Image 2. Surface staining of CD64 in human peripheral blood with anti-CD64 (10.1) purified, GAM-APC.



Flow Cytometry

Image 3. Separation of human monocytes (red-filled) from CD64 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD64 (10.1) purified antibody (concentration in sample 4 µg/mL) GAM APC.