

## Anti-Hu CD64 Purified FCGR1A Monoclonal Antibody

Catalog Number: M02428

### About FCGR1A

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 potentially enhance MHC class I and II antigen presentation in vitro and in vivo.

### Overview

Product Name	Anti-Hu CD64 Purified FCGR1A Monoclonal Antibody
Reactive Species	Human, Primate
Description	Boster Bio Anti-Hu CD64 Purified FCGR1A Monoclonal Antibody (Catalog# M02428). Tested in Flow Cytometry, IP, WB, IHC-P, IHC-F, ICC application(s). This antibody reacts with Human, Primate.
Application	Flow Cytometry, IP, IHC-P, IHC-F, ICC, WB
Clonality	Monoclonal 10.1
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P12314

### Technical Details

Immunogen	Rheumatoid synovial fluid cells and fibronectin purified human monocytes. 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.
Predicted Reactive Species	Primate
Cross Reactivity	This antibody does not cross-react with Thy-1.1 alloantigen.
Isotype	Mouse IgG1 kappa
Form	Liquid

Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow cytometry: 1-5 ug/ml.</p>

## Anti-Hu CD64 Purified FCGR1A Monoclonal Antibody (M02428) Images

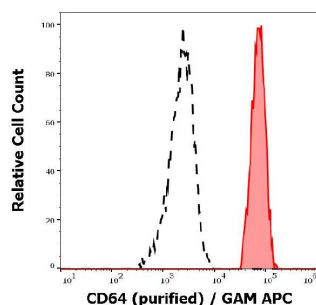


Figure 1. Flow Cytometry validation of FCGR1A using Anti-Hu CD64 Purified FCGR1A Monoclonal Antibody (M02428).

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 ug/ml) GAM APC.

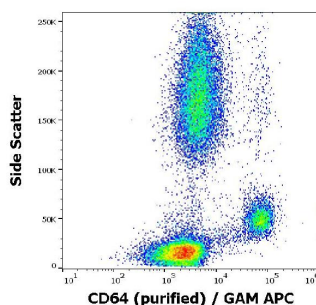


Figure 2. Flow Cytometry validation of FCGR1A using Anti-Hu CD64 Purified FCGR1A Monoclonal Antibody (M02428).

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

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