

# ARG65361 anti-CD64 antibody [10.1]

Package: 100 μg Store at: -20°C

# Summary

Product Description	Mouse Monoclonal antibody [10.1] recognizes CD64
Tested Reactivity	Hu, NHuPrm
Tested Application	CyTOF®-candidate, FACS, FuncSt, ICC/IF, IHC-Fr, IHC-P, IP, WB
Specificity	The clone 10.1 recognizes alpha subunit of CD64/FcgammaRI, a 72 kDa single chain type I glycoprotein, that is expressed on monocytes/macrophages, dendritic cells, and activated granulocytes. HLDA III; WS Code M-250
Host	Mouse
Clonality	Monoclonal
Clone	10.1
Isotype	lgG1
Target Name	CD64
Species	Human
Immunogen	Rheumatoid synovial fluid cells and fibronectin purified human monocytes
Conjugation	Un-conjugated
Alternate Names	High affinity immunoglobulin gamma Fc receptor I; CD64; Fc-gamma RIA; CD antigen CD64; FcgammaRIa; FCRI; IgG Fc receptor I; CD64A; Fc-gamma RI; FcRI; IGFR1

# **Application Instructions**

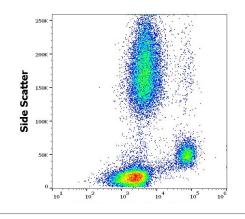
Application table	Application	Dilution
	CyTOF <sup>®</sup> -candidate	Assay-dependent
	FACS	1 - 5 µg/ml
	FuncSt	Assay-dependent
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	Functional studies: blocking	n occur problems with paraformaldehyde fixation g of IgG binding to the FcgammaR1. commended starting dilutions and the optimal dilutions or concentrations he scientist.

## Properties

Form	Liquid
Purification	Purified from cell culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

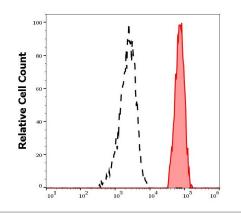
## **Bioinformation**

Database links	GeneID: 2209 Human
	Swiss-port # P12314 Human
Gene Symbol	FCGR1A
Gene Full Name	Fc fragment of IgG, high affinity Ia, receptor (CD64)
Background	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.
Function	High affinity receptor for the Fc region of immunoglobulins gamma. Functions in both innate and adaptive immune responses. [UniProt]
Highlight	Related products: <u>CD64 antibodies:</u> <u>Anti-Mouse IgG secondary antibodies:</u> Related news: <u>CyTOF-candidate Antibodies</u>
Research Area	Immune System antibody
Calculated Mw	43 kDa
PTM	Phosphorylated on serine residues.



### ARG65361 anti-CD64 antibody [10.1] FACS image

Flow Cytometry: Human peripheral blood stained with ARG65361 anti-CD64 antibody [10.1] at 4  $\mu g/ml$  dilution, followed by APC-conjugated Goat anti-Mouse antibody.



#### ARG65361 anti-CD64 antibody [10.1] FACS image

Flow Cytometry: Separation of human monocytes (red-filled) from CD64 negative lymphocytes (black-dashed). Human peripheral whole blood stained with ARG65361 anti-CD64 antibody [10.1] at 4  $\mu$ g/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.