

ARG54185 anti-CD64 antibody [10.1] (APC)

Package: 50 tests

Store at: 4°C

Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [10.1] recognizes CD64
Tested Reactivity	Hu, NHuPrm
Tested Application	FACS
Specificity	The clone 10.1 recognizes alpha subunit of CD64/FcγRI, 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	IgG1
Target Name	CD64
Species	Human
Immunogen	Rheumatoid synovial fluid cells and fibronectin purified human monocytes
Conjugation	APC
Alternate Names	High affinity immunoglobulin gamma Fc receptor I; CD64; Fc-gamma RIA; CD antigen CD64; FcγRIa; FCRI; IgG Fc receptor I; CD64A; Fc-gamma RI; FcRI; IGFR1

Application Instructions

Application table	Application	Dilution
	FACS	10 μl / 10 ⁶ cells

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. 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 potentially 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]
Research Area	Immune System antibody
Calculated Mw	43 kDa
PTM	Phosphorylated on serine residues.