

Mouse CD64 Monoclonal Antibody | anti-CD64 antibody

Anti-Hu CD64 PE-Cyanine7

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128250	Mouse	Human, Non-human primates	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD64; Monoclonal Antibody; Anti-Hu CD64 PE-Cyanine7; Fc fragment of IgG receptor Ia; FcRI; IGFR1; FcγR1A; anti-CD64 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Non-human primates
Clonality	Monoclonal
Isotype	IgG1 kappa
Clone Number	10.1
Specificity	The mouse monoclonal antibody 10.1 recognizes an extracellular epitope on CD64/FcγmaRI, a 72 kDa single chain type I glycoprotein, that is expressed on monocytes/macrophages, dendritic cells, and activated granulocytes.
Purity/Purification	The purified antibody is conjugated with tandem dye PE-Cyanine7 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Sequence Length	374
Applicable Applications for anti-CD64 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Rheumatoid synovial fluid cells and fibronectin purified human monocytes
Conjugation	PE-Cyanine7
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.

ADDITIONAL INFORMATION

Related Product Information for anti-CD64 antibody	CD64 (FcγmaRI) 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 FcγmaRIa1 binds human IgG with high affinity, has limited myeloid cell distribution, and a relatively large intracellular domain. Products of related genes include FcγmaRIb and FcγmaRIc isoforms, but these specify low affinity IgG receptors if functionally expressed at all. Besides a role in antigen clearance, FcγmaRI (a1) can potentially enhance MHC class I and II antigen presentation in vitro and in vivo.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50403717
NCBI GeneID	2209
UniProt Accession #	P12314
NCBI Official Full Name	High affinity immunoglobulin gamma Fc receptor I

NCBI Official Synonym Full Names	Fc fragment of IgG receptor Ia
NCBI Official Symbol	FCGR1A
NCBI Official Synonym Symbols	CD64; FCRI; CD64A; IGFR1
NCBI Protein Information	high affinity immunoglobulin gamma Fc receptor I
UniProt Protein Name	High affinity immunoglobulin gamma Fc receptor I
UniProt Gene Name	FCGR1A
UniProt Synonym Gene Names	FCG1; FCGR1; IGFR1; IgG Fc receptor I; FcRI; FcgammaRIa
UniProt Entry Name	FCGR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd64-antibody-clone-10-1-flow-cytometry-elisa/128250>