

## Mouse CD64 Monoclonal Antibody | anti-CD64 antibody

Anti-Hu CD64 FITC

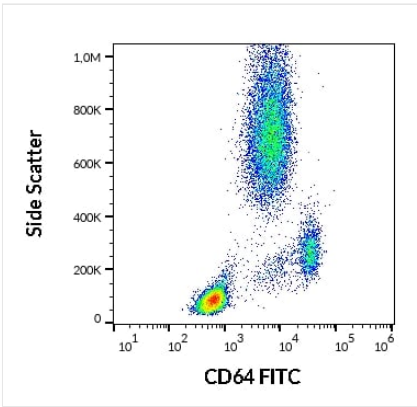
| CATALOG # | HOST  | REACTIVITY                | APPLICATIONS                     |
|-----------|-------|---------------------------|----------------------------------|
| AAA128248 | Mouse | Human, Non-human primates | Flow Cytometry, Functional Assay |

### PRODUCT SYNONYMS

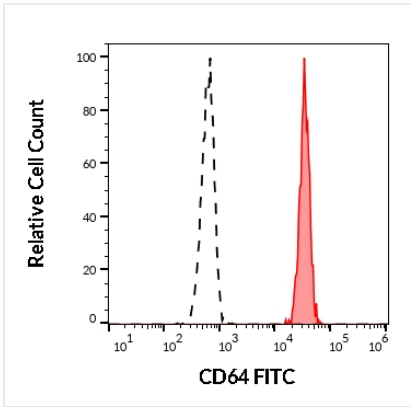
CD64; Monoclonal Antibody; Anti-Hu CD64 FITC; Fc fragment of IgG receptor Ia; FcRI; IGFR1; FcgR1A; anti-CD64 antibody

### 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/FcγRI, 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 fluorescein isothiocyanate (FITC) 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                                    | FITC                                                                                                                                                                                                                      |
| Preparation and Storage                        | Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light.                                                                                                                                      |



**FCM/FACS (Flow Cytometry)**  
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD64 (10.1) FITC antibody (4 ul reagent / 100 ul of peripheral whole blood).



**FCM/FACS (Flow Cytometry)**  
Separation of human monocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD64 (10.1) FITC antibody (4 ul reagent / 100 ul of peripheral whole blood).

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-CD64 antibody</b> | 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. |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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.