# PE Anti-human CD64 Antibody *10.1*

Catalog number: 106401L0, 106401L1, 106401L2
Unit size: 25 tests, 100 tests, 500 tests

## Product Details

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|---|---|
| Storage Conditions | 2-8°C with minimized light exposure. Do not freeze. |
| Expiration Date | 12 months upon receiving |
| Concentration | 0.1 mg/mL |
| Formulation | Phosphate-buffered saline (PBS, pH 7.2), 0.09% sodium azide, 0.2% (w/v) BSA |

## Antibody Properties

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|---|---|
| Species Reactivity | Human |
| Class | Primary |
| Clonality | Monoclonal |
| Host | Mouse |
| Isotype | Mouse IgG1 |
| Immunogen | CD64 (FcR I) |
| Clone | 10.1 |
| Conjugate | PE |

## Biological Properties

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|---|---|
| Preparation | Antibody purified by affinity chromatography and then conjugated with PE under optimal conditions |
| Application | Flow Cytometry (FACS) |

## Spectral Properties

| | |
|---|---|
| Conjugate | PE |
| Excitation Wavelength | 566 nm |
| Emission Wavelength | 574 nm |

## Applications

The 10.1 monoclonal antibody binds with human CD64, a 72 kD single-pass type i membrane protein typically expressed on the surface of granulocytes, monocytes and dendritic cells. In some organisms, CD64 enhances protein tyrosine kinase activity. Moreover, it is a member of vital cellular pathways, for example, the interferon-gamma-mediated signaling pathway and Fc-gamma receptor signaling pathway involved in phagocytosis. From a research standpoint, it is of biological interest due to its association with important macromolecules/ligands such as . CD64 is a fairly uncommon antibody target, with a little more than 4000 publications in the last decade. Even still, CD64 is often used in flow cytometry applications as a phenotypic marker for differentiation of cell types, particularly in the study of immunology and innate immunity. This antibody was purified through affinity chromatography and conjugated to PE (ex/em = 566/574 nm). It is compatible with the 561 nm laser

and 586/15 nm bandpass filter (for example, as in the BD FACSCelesta™).