

# Cardinal Red™ Anti-Human CD64 (10.1)

Catalog Number: **CR-65253**

## Basic Information

**Catalog Number:**

CR-65253

**Size:**

100 tests, 5 µl/test

**Source:**

Mouse

**Isotype:**

IgG1, kappa

**GenBank Accession Number:**

BC032634

**GeneID (NCBI):**

2209

**ENSEMBL Gene ID:**

ENSG00000150337

**UNIPROT ID:**

P12314

**Full Name:**

Fc fragment of IgG, high affinity Ia, receptor (CD64)

**Calculated MW:**

374 aa, 43 kDa

**Purification Method:**

Affinity purification

**CloneNo.:**

10.1

**Excitation/Emission maxima wavelengths:**

592 nm / 611 nm

## Applications

**Tested Applications:**

FC

**Species Specificity:**

Human

## Background Information

Fc $\gamma$  receptor comprise a multigene family of integral membrane glycoproteins that exhibit complex activation or inhibitory effects on cell functions after aggregation by complexed immunoglobulin G (IgG) (PMID: 17005690). CD64, also known as Fc $\gamma$  RIA, is a high-affinity receptor for the Fc region of IgG. It is expressed by monocytes/macrophages, activated neutrophils, dendritic cells, and early myeloid cells (PMID: 23293080; 19642859; 7680917). CD64 functions in both innate and adaptive immune responses.

## Storage

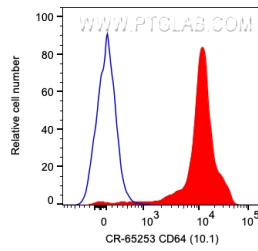
**Storage:**

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

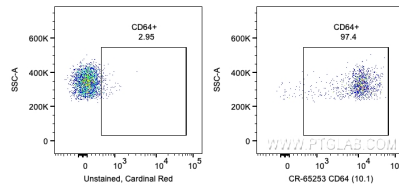
**Storage Buffer:**

PBS with 0.09% sodium azide and 0.5% BSA.

## Selected Validation Data



1X10<sup>6</sup> human PBMCs were surface stained with 5 ul Cardinal Red™ Anti-Human CD64 (CR-65253, Clone:10.1) (red) or unstained. Cells were not fixed. Monocytes were gated.



1X10<sup>6</sup> human PBMCs were surface stained with 5 ul Cardinal Red™ Anti-Human CD64 (CR-65253, Clone:10.1) or unstained. Cells were not fixed. Monocytes were gated.