

# Mouse Anti-Human CD14,PE Conjugated mAb

Catalog No: #28288

Package Size: #28288-1 25 Tests #28288-2 50 Tests #28288-3 100 Tests

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## Description

|                       |   |
|-----------------------|---|
| Product Name          | Mouse Anti-Human CD14,PE Conjugated mAb   |
| Host Species          | Mouse   |
| Clonality             | Monoclonal  |
| Clone No.             | 3A8   |
| Isotype               | Mouse IgG2a, $\kappa$   |
| Applications          | FC  |
| Species Reactivity    | Hu  |
| Specificity           | This antibody recognizes human CD14 in FACS.  |
| Immunogen Description | Human peripheral blood mononuclear cells  |
| Formulation           | Lyophilized from a 0.2 $\mu$ m filtered solution in phosphate buffered saline (PBS) and reconstitute with sterile PBS |
| Storage               | Store protected from light at 2-8°C. Do not freeze. The expiration date is indicated on the vial label.               |

## Application Details

**Format:**Antibodies are supplied in buffer containing stabilizer and 0.05% sodium azide

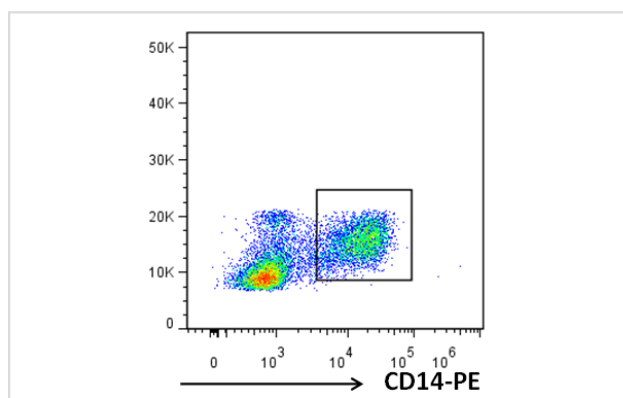
**Preparation:**This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse immunized with human CD14 Recombinant Protein). The monoclonal antibody was purified from tissue culture supernatant or ascites by protein G affinity chromatography.

**Product Notices:**This reagent has been pre-diluted for use at the recommended volume per test.

We typically use 1 10<sup>6</sup> cells in a 100- $\mu$ l experimental sample (per test).

An isotype control should be used at the same concentration as the antibody of interest.

## Images



Flow cytometric analysis of CD14 expression on human peripheral blood mononuclear cells (PBMCs). PBMCs were stained with either mouse IgG2a,  $\kappa$  Isotype control or mouse anti-human CD14 antibodies conjugated to PE. Fluorescence histograms showing the expression of CD14 (or Ig Isotype control staining) were derived from events with the forward and side light-scatter characteristics of viable cells. Flow cytometric analysis was performed using a Beckman FC 500 Flow Cytometer System.

## Product Description

Cluster of differentiation 14 (CD14) is a member of the CD system. It takes its name from its inclusion in the CD molecule surface marker proteins. CD14 exists in two forms: a form anchored into the membrane or a soluble form. CD14 was found expressed in macrophages, neutrophil

granulocyte and dendritic cells. CD14 acts as a co-receptor (along with the Toll-like receptor TLR 4 and MD-2) for the detection of bacterial lipopolysaccharide (LPS). CD14 can bind LPS only in the presence of lipopolysaccharide-binding protein (LBP). Although LPS is considered its main ligand, CD14 also recognizes other pathogen-associated molecular patterns such as lipoteichoic acid.

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Note: This product is for in vitro research use only