BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-human CD14 Monoclonal Antibody Biotin Conjugated, Flow Validated

**Catalog Number:** FC00137-Biotin

## Introduction

Clone 26ic reacts with a nonfunctional domain of human CD14, a 53-55 kDa glycosylphosphatidylinositol (GPI)-anchored and single chain glycoprotein expressed at high levels on monocytes. Additionally, CD14 antibody reacts with interfollicular macrophages, reticular dendritic cells and some Langerhans cells. The binding of CD14 antibody does not inhibit CD14 mediated activities, and is useful for detecting CD14 expression by immunofluorescence and or immunocytochemical methods.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development by CapricoBio or are reported in the literature.

## Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is 0.5ug per 1x106 cells in 100ul of staining volume followed by a staining with any fluorescent conjugated streptavidin. It is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

## About CD14

CD14, Cluster of differentiation 14, ingle-copy gene encoding 2 protein forms: a 50- to 55-kD glycosylphosphatidylinositol-anchored membrane protein (mCD14) and a monocyte or liver-derived soluble serum protein (sCD14) that lacks the anchor. By in situ hybridization and study of somatic cell hybrid DNA that the gene is located at bands 5q23-q31. 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.

## Overview

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| Product Name | Anti-human CD14 Monoclonal Antibody Biotin Conjugated, Flow Validated |
| Reactive Species | Human |
| Description | Boster Bio Anti-human CD14 Monoclonal Antibody Biotin Conjugated, Flow Validated catalog # FC00137-Biotin. Tested in Flow Cytometry applications. This antibody reacts with Human. |
| Conjugate | Biotin |
| Application | Flow Cytometry |
| Clonality | Monoclonal 26ic |
| Formulation | PBS, pH7.2, 0.09% NaN3 |
| Storage Instructions | Store at 4°C for one year. Do not freeze. |
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|---|---|
| Host | Mouse |
| Uniprot ID | P08571 |

## Technical Details

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|---|---|
| Immunogen | Recombinant human LRRC32 (aa 20-627). |
| Predicted Reactive Species | Bovine, Mammalian |
| Cross Reactivity | No cross reactivity with other proteins. |
| Isotype | IgG2b,k |
| Form | Liquid |
| Concentration | 0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure. |
| Purification | Protein A purified |
| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.<br>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.<br>Some PubMed article(s) citing the expression level of this target are as follows:<br>Boster Bio's internal QC testing used:<br>User needs to optimize the dilution ratio for this antibody. |

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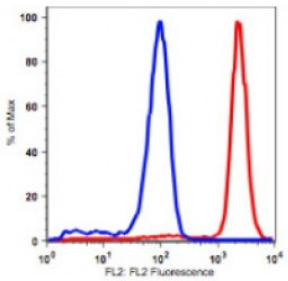
# Anti-human CD14 Monoclonal Antibody Biotin Conjugated, Flow Validated (FC00137-Biotin) Images




Monocytes gated PBMCs stained with biotin anti-human CD14 (clone 26iC) followed by PE conjugated streptavidin (red histogram). Monocytes gated PBMCs stained with biotin conjugated mouse IgG2b isotype control followed by PE conjugated streptavidin (Blue histogram).