

## Product Information

Contents: Affinity Purified anti-human CD14

Catalog Number: 14-0149

Sizes: 25 ug, 100 ug

Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>

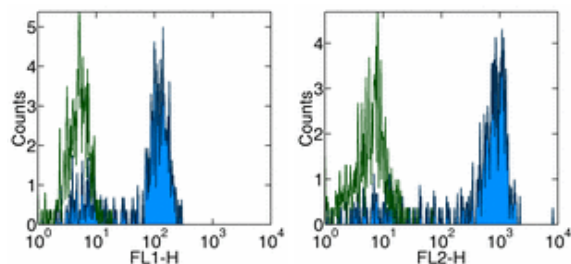
Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: 61D3

Isotype: Mouse IgG1, κ

HLDA No.: V MA085



Surface staining of normal human peripheral blood cells with anti-human CD14 (61D3) FITC (left), and PE (right). Appropriate isotype controls were used (open histogram). Cells in the monocyte population were used for analysis.

## Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0149	FITC anti-human CD14	488	518	FC
12-0149	PE anti-human CD14	488	575	FC
14-0149	Affinity Purified anti-human CD14	N/A	N/A	FA FC IHC
16-0149	Functional Grade* Purified anti-human CD14	N/A	N/A	FA FC
17-0149	APC anti-human CD14	633	660	FC
25-0149	Phycoerythrin-Cy7 (PE-Cy7) anti-human CD14	488	760	FC

\*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg.  
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

## Description

The 61D3 monoclonal antibody reacts with human CD14, a 53-55 kDa GPI-linked glycoprotein. CD14 is expressed on monocytes, interfollicular macrophages and some dendritic cells. Complexes of LPS and LBP (LPS-Binding Protein) bind with high affinity to monocytes through the surface CD14.

## Usage

For research use only, not for diagnostic or therapeutic use. The 61D3 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining. 61D3 has also been reported in *in vitro* functional studies. (Please use Functional Grade purified 61D3, cat. 16-0149, in functional assays.)

## Applications Tested

The 61D3 antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at less than or equal to 1 μg per 100 μl blood (or per 1 million cells in 100 μl total staining volume). It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

## Related Products

- Cat. 11-0149 FITC anti-human CD14 (clone 61D3)
- Cat. 12-0149 PE anti-human CD14 (clone 61D3)
- Cat. 16-0149 Functional Grade Purified anti-human CD14 (clone 61D3)
- Cat. 17-0149 APC anti-human CD14 (clone 61D3)
- Cat. 25-0149 Phycoerythrin-Cy7 (PE-Cy7) anti-human CD14 (clone 61D3)

Cat. 11-4011 FITC Anti-Mouse IgG  
Cat. 13-4013 Biotin Anti-Mouse IgG (clone Polyclonal)  
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)  
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)  
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)  
Cat. 14-4714 Affinity Purified Mouse IgG1, K Isotype Control

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## References

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Schlossman, S., L. Bloumsell, et al. eds (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York.

Kishimoto, T., A.E.G., von dem Borne, et al. eds. (1998). Leucocyte Typing VI: White Cell Differentiation Antigens. Garland Publishing Inc. London.

Fadok VA, Warner ML, Bratton DL, Henson PM. CD36 is required for phagocytosis of apoptotic cells by human macrophages that use either a phosphatidylserine receptor or the vitronectin receptor (alpha v beta 3). J Immunol 1998 Dec 1;161(11):6250-7.

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