

# CD14 Monoclonal Antibody (61D3), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	61D3
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1582276

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (1 µg)/test	42 Publications
Immunofluorescence (IF)	-	1 Publication

## Product Specific Information

**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.

**Applications Reported:** The 61D3 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 61D3 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (1.0 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

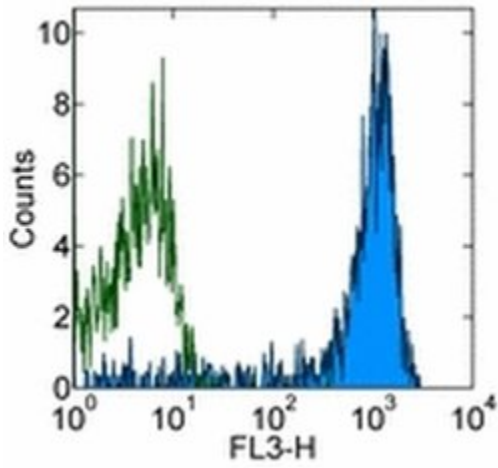
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

**Excitation:** 488-561 nm; **Emission:** 775 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD14 Monoclonal Antibody (61D3), PE-Cyanine7, eBioscience™



### CD14 Antibody (25-0149-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE-Cyanine7 (Product # 25-4714-80) (open histogram) or Anti-Human CD14 PE-Cyanine7 (filled histogram). Cells in the monocyte gate were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

## 43 References

### Flow Cytometry (42)

Oncoimmunology

#### Prostaglandin E<sub>2</sub>-mediated adenosinergic effects on CD14<sup>+</sup> cells: Self-amplifying immunosuppression in cancer.

"25-0149 was used in Flow cytometry/Cell sorting to show that CD73 expression can be induced by PGE<sub>2</sub>, cAMP or adenosine on human CD14<sup>+</sup> cells."

Authors: Al-Taei S, Salimu J, Spary LK, Clayton A, Lester JF, Tabi Z

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2020

Journal of extracellular vesicles

#### Dominant immunosuppression of dendritic cell function by prostate-cancer-derived exosomes.

"25-0149 was used in Flow cytometry/Cell sorting to identify exosomal prostaglandin E<sub>2</sub> as a driver of CD73 induction, as prostaglandin E<sub>2</sub> receptor inhibition significantly reduced exosome-dependent CD73 induction."

Authors: Salimu J, Webber J, Gurney M, Al-Taei S, Clayton A, Tabi Z

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2020

[View more Flow references on thermofisher.com](#)

### Immunofluorescence (1)

PloS one

#### Ulcerative colitis impairs the acylethanolamide-based anti-inflammatory system reversal by 5-aminosalicylic acid and glucocorticoids.

"25-0149 was used in Immunofluorescence to study how the NAE-PPAR signaling system is impaired during active UC and 5-ASA/glucocorticoids treatment restored its normal expression."

Authors: Suárez J, Romero-Zerbo Y, Márquez L, Rivera P, Iglesias M, Bermúdez-Silva FJ, Andreu M, Rodríguez de Fonseca F

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2012

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