

CD14 Monoclonal Antibody (61D3), Super Bright™ 702, eBioscience™

| Product Details | |
|-----------------------------|--|
| Size | 100 Tests |
| Species Reactivity | Human |
| Host/Isotype | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 702, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 61D3 |
| Conjugate | Super Bright™ 702 |
| Form | Liquid |
| Concentration | 5 µL/Test |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with BSA |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_2662454 |

| Applications | Tested Dilution | Publications |
|------------------------------|---------------------|----------------|
| Immunohistochemistry (IHC) | - | 1 Publication |
| Immunocytochemistry (ICC/IF) | - | 1 Publication |
| Flow Cytometry (Flow) | 5 µL (0.25 µg)/test | 8 Publications |
| Neutralization (Neu) | - | 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 (0.25 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 10⁵ to 10⁸ cells/test.

Super Bright 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright

Staining Buffer (cat. SB-4400) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer.

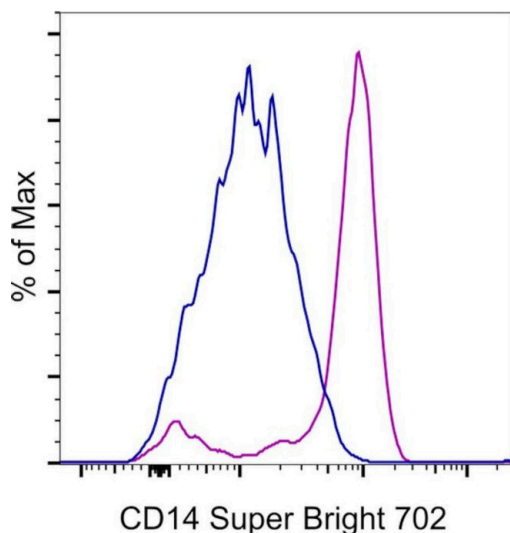
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L of cell sample + 100 μ L 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: 405 nm; Emission: 702 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD14 Monoclonal Antibody (61D3), Super Bright™ 702, eBioscience™



CD14 Antibody (67-0149-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG1 K Super Bright 702 (Product # 67-4714-82) (blue histogram) or Anti-Human CD14 Super Bright 702 (purple histogram). Cells in the monocyte gate were used for analysis.

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

11 References

Immunohistochemistry (1)

PloS one

Biologically active polymers from spontaneous carotenoid oxidation: a new frontier in carotenoid activity.

"Published figure using CD14 monoclonal antibody (Product # 67-0149-42) in Immunohistochemistry"

Authors: Johnston JB, Nickerson JG, Daroszewski J, Mogg TJ, Burton GW

Year
2015

Immunocytochemistry (1)

Scientific reports

Thrombomodulin regulates monocyte differentiation via PKC and ERK1/2 pathway in vitro and in atherosclerotic artery.

"Published figure using CD14 monoclonal antibody (Product # 67-0149-42) in Immunocytochemistry"

Authors: Tsai CS, Lin YW, Huang CY, Shih CM, Tsai YT, Tsao NW, Lin CS, Shih CC, Jeng H, Lin FY

Year
2016

Flow Cytometry (8)

International journal of biological sciences

MiR-103 protects from recurrent spontaneous abortion via inhibiting STAT1 mediated M1 macrophage polarization.

"Published figure using CD14 monoclonal antibody (Product # 67-0149-42) in Flow Cytometry"

Authors: Zhu X, Liu H, Zhang Z, Wei R, Zhou X, Wang Z, Zhao L, Guo Q, Zhang Y, Chu C, Wang L, Li X

Year
2021

Heliyon

SARS-CoV-2 infection paralyzes cytotoxic and metabolic functions of the immune cells.

"Published figure using CD14 monoclonal antibody (Product # 67-0149-42) in Flow Cytometry"

Authors: Singh Y, Trautwein C, Fendel R, Krickeberg N, Berezhnoy G, Bissinger R, Ossowski S, Salker MS, Casadei N, Riess O

Year
2021

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

More applications with references on thermofisher.com

Neu (1)

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