

Primary Antibodies (/us/en/home/life-science/antibodies/primary-antibodies.html) >
CD14 Antibodies (/antibody/primary/target/cd14)

Invitrogen

CD14 Monoclonal Antibody (61D3), Brilliant Violet™ 650, eBioscience™

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[Datasheet \(/order/genome-database/dataSheetPdf?producttype=antibody&productsubtype=antibody_primary&productId=416-0149-42&version=Local\)](/order/genome-database/dataSheetPdf?producttype=antibody&productsubtype=antibody_primary&productId=416-0149-42&version=Local)

[Antibody Testing Data \(1\)](#)

Catalog # **416-0149-42**

100 Tests

CAD 476.00

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Join **Aspire™** for free antibodies (/us/en/home/life-science/antibodies/antibodies-learn.html?cid=bid_asp_sbu_r02_co_cp1438_pjt772)

Quantity

1

Request bulk or custom format (/content/lifetech/global/en/home/global/bio.html?productType=Antibody&primarySiteId=Local&productId=416-0149-42&productDescription=CD14 Monoclonal Antibody, Brilliant Violet™ 650, eBioscience&version=Local)

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[Protocols \(https://www.thermo.com/global/en/home/life-science/antibodies/antibodies-learning-center/antibody-protocols.html?icid=antibody-protocols\)](https://www.thermo.com/global/en/home/life-science/antibodies/antibodies-learning-center/antibody-protocols.html?icid=antibody-protocols)

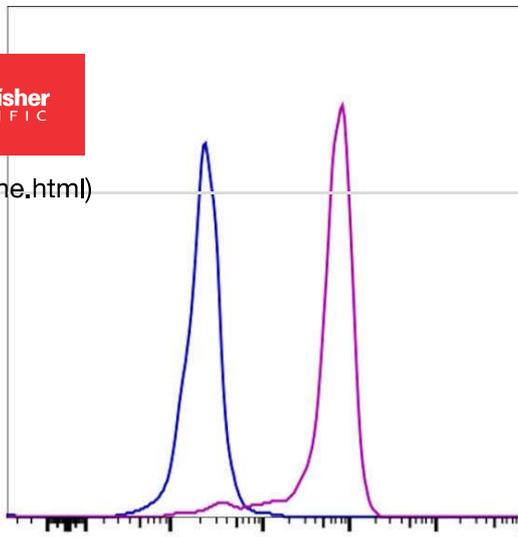
[Performance Guarantee \(/us/en/home/life-science/antibodies/antibody-performance-guarantee.html\)](/us/en/home/life-science/antibodies/antibody-performance-guarantee.html)

FIGURE: 1 / 1

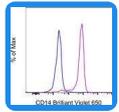
CD14 Antibody (416-0149-42) in Flow

Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, Brilliant Violet 650 (Product # 416-4714-81 (/order/genome-database/details/antibody/416-4714-81)) (blue histogram) or CD14 Monoclonal Antibody, Brilliant Violet 650 (purple histogram). Viable cells in the monocyte

% of Max



CD14 Brilliant Violet 650



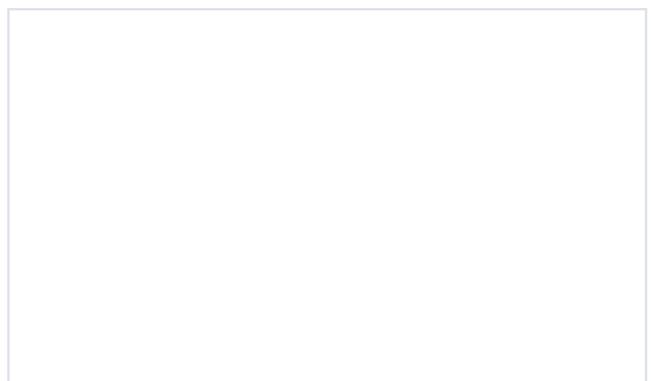
gate were used for analysis, as determined by 7-AAD (Product # 00-6993-50 (/order/catalog/product/00-6993-50)). View more



Product Details

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 μ L (1.0 μ g)/test	-

Product Specifications



Species Reactivity

Human

Home

ThermoFisher
SCIENTIFIC

Mouse / IgG1, kappa



(/ca/en/home.html)

Recommended Isotype Control

Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Brilliant Violet™ 650, eBioscience™
(//www.thermofisher.com/antibody/product/416-4714-81)

Class

Monoclonal

Type

Antibody

Clone

61D3

Conjugate

Brilliant Violet™ 650

View additional formats ▾

Excitation/Emission Max

407/646 nm

View spectra (</order/fluorescence-spectraviewer?SID=srch-svtool&UID=BV650>)

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!

Shipping conditions

Ambient (domestic); Wet ice (international)

RRID ⓘ

AB_2929096

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: This 61D3 antibody has been reported for use in flow cytometric analysis.

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Ap
be
an
cells. This may be used at 5 μ L (1.0 μ g) per test.
(<https://www.thermofisher.com/order/catalog/product/11-1111-1111>)
A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

**ThermoFisher
SCIENTIFIC**

Brilliant Violet™ 650 (BV650) is a tandem dye that emits at 649 nm and is intended for use on cytometers equipped with a violet (405 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42 (<https://www.thermofisher.com/order/catalog/product/SB-4401-42>)) or Brilliant Stain Buffer™ (Product # 00-4409-75 (<https://www.thermofisher.com/order/catalog/product/00-4409-75>)) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

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 (Product # 00-8222-49 (<https://www.thermofisher.com/order/catalog/product/00-8222-49>)) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54 (<https://www.thermofisher.com/order/catalog/product/00-5333-54>)) 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.

Our internal testing suggests that Brilliant Violet™ 650 (BV650) is not compatible with methanol-based fixation.

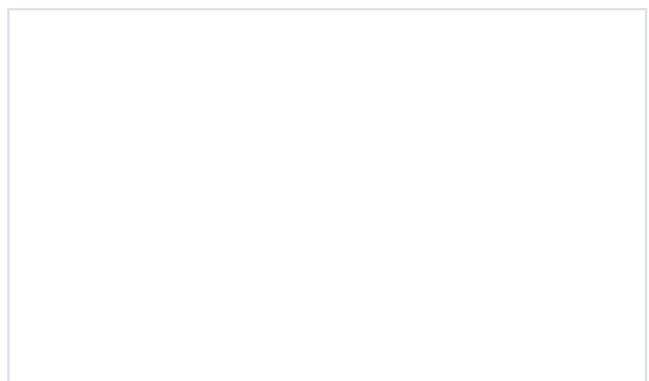
Excitation: 407 nm; Emission: 649 nm; Laser: Violet Laser.

[science/cell-analysis/flow-cytometry/antibodies-for-flow-cytometry/flow-cytometry-panel-builder.html](https://www.thermofisher.com/order/catalog/product/11-1111-1111))



How to use the Panel Builder

Watch the video to learn how to use the Invitrogen Flow Cytometry Panel Builder to build your next flow cytometry panel in 5 easy steps.



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Target Information

CD14 is a 55 kDa GPI-anchored glycoprotein that is constitutively expressed on the surface of mature monocytes, macrophages, and neutrophils. CD14 also serves as a multifunctional lipopolysaccharide receptor, and is released to the serum both as a secreted and enzymatically cleaved GPI-anchored form. CD14 binds lipopolysaccharide molecule in a reaction catalyzed by lipopolysaccharide-binding protein (LBP), an acute phase serum protein. The soluble sCD14 can discriminate slight structural differences between lipopolysaccharides and is important for neutralization of serum allochthonous lipopolysaccharides by reconstituted lipoprotein particles. Further, CD14 has been shown to bind apoptotic cells, and can affect allergic, inflammatory and infectious processes. Alternative splicing results in multiple transcript variants encoding the same CD14 isoform. Diseases associated with CD14 dysfunction include mycobacterium chelonae infection and Croup.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Related Products for

Flow Cytometry

Secondary Antibodies

Additional Formats

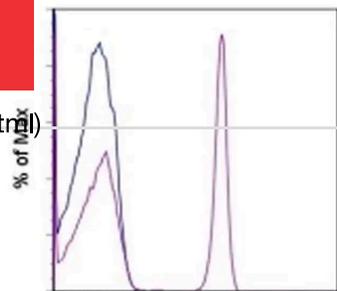
Isotype Controls

Buffers FC

Viability Dyes FC

Co

(/ca/en/home.html)



CD4 Purified/Anti-Mouse IgG1 FITC

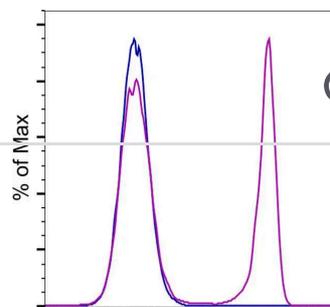
Catalog # 11-4015-80

Invitrogen
Rat anti-Mouse IgG1 Secondary
Antibody, FITC, eBioscience™

(/antibody/product/11-4015-80)

CAD 98.50 ⓘ | 100 µg

Add To Cart



Anti-mIgG1 Super Bright 600

Catalog # 63-4015-

Invitrogen
Rat anti-Mouse IgG1 Secondary
Antibody, Super Bright™ 600,
eBioscience™

(/antibody/product/63-4015-82)

CAD 558.00 ⓘ | 100 µg

Add To Cart

References (0)

Have you cited this product in a publication?
Let us know so we can reference it here.

Cite this product (mailto:AntibodyContentGroup@thermofisher.com?subject=Add my citation)

Bioinformatics

Protein Aliases: CD 14; CD14; cd14 monocyte; LPSR antibody; Monocyte differentiation antigen CD14; Myeloid cell-specific leucine-rich glycoprotein; sCD14;

Function(s)



Gene A

ThermoFisher
SCIENTIFIC

Process(es)



UniProt ID: (Human) P08571

(<http://www.uniprot.org/uniprot/P08571>)

Entrez Gene ID: (Human) 929

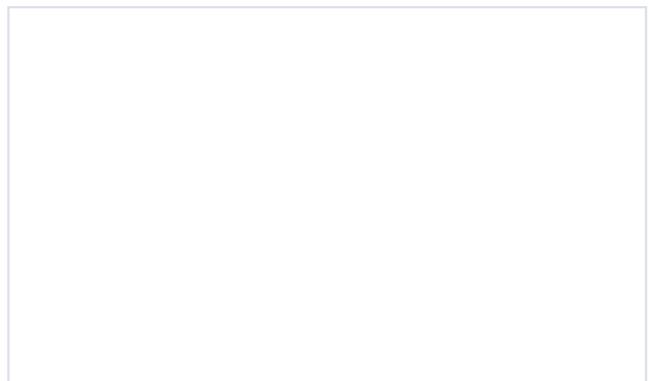
(<http://www.ncbi.nlm.nih.gov/gene?term=929>)

Performance Guarantee

If an Invitrogen™ antibody doesn't perform as described on our website or datasheet, we'll replace the product at no cost to you, or provide you with a credit for a future purchase.*

Learn more

(<https://www.thermofisher.com/us/en/home/life-science/antibodies/antibody-performance-guarantee.html>)



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