

CD14 Monoclonal Antibody (61D3), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotope	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	61D3
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_467129

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	51 Publications
Functional Assay (FN)	Assay-Dependent	-
Immunohistochemistry (Paraffin) (IHC (P))	20 µg/mL	-
Immunocytochemistry (ICC)	-	2 Publications
Immunofluorescence (IF)	-	5 Publications
Miscellaneous PubMed (Misc)	-	1 Publication
Neutralization (Neu)	-	3 Publications

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, and immunohistochemical staining of formalin-fixed paraffin embedded human tissue. 61D3 has also been reported for in vitro functional studies. (Please use Functional Grade Purified 61D3, cat. 16-0149, in functional assays, and fluorochrome-conjugated 61D3 is recommended for use in flow cytometry.).

Applications Tested: The 61D3 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.5 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. The 61D3

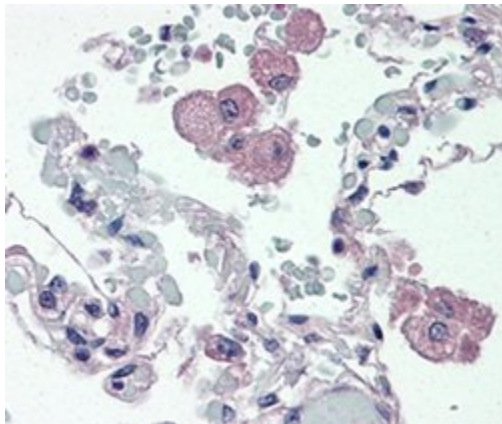
antibody has also been tested by immunohistochemistry of formalin-fixed paraffin embedded human tissue using low pH antigen retrieval and can be used at less than or equal to 20 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

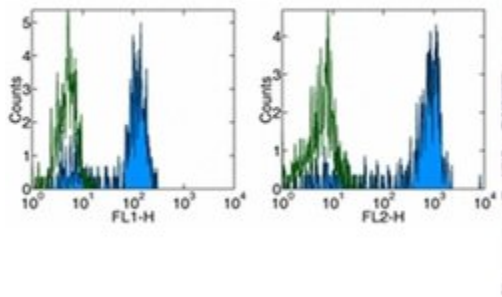
Filtration: 0.2 µm post-manufacturing filtered.

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



CD14 Antibody (14-0149-82) in IHC (P)

Immunohistochemistry of formalin-fixed paraffin embedded human lung tissue stained with 20 µg/mL of Anti-Human CD14 Purified, followed by Anti-Mouse IgG Biotin, Streptavidin Alkaline Phosphatase and Fast Red. Nuclei are counterstained with hematoxylin.



CD14 Antibody (14-0149-82) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD14 FITC (left) and PE (right). Appropriate isotype controls were used (open histogram). Cells in the monocyte population were used for analysis.

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

Flow Cytometry (51)

Frontiers in immunology

Characterizing the Role of Monocytes in T Cell Cancer Immunotherapy Using a 3D Microfluidic Model.

"Published figure using CD14 monoclonal antibody (Product # 14-0149-82) in Flow Cytometry"
 Authors: Lee SWL,Adriani G,Ceccarello E,Pavesi A,Tan AT,Bertoletti A,Kamm RD,Wong SC

Species
Not Applicable

Dilution
Not Cited

Year
2019

Nature communications

Cellular metabolism constrains innate immune responses in early human ontogeny.

"Published figure using CD14 monoclonal antibody (Product # 14-0149-82) in Flow Cytometry"
 Authors: Kan B,Michalski C,Fu H,Au HHT, Lee K, Marchant EA, Cheng MF, Anderson-Baucum E, Aharoni-Simon M, Tilley P, Mirmira RG, Ross CJ, Luciani DS, Jan E, Lavoie PM

Species
Not Applicable

Dilution
Not Cited

Year
2018

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

Miscellaneous PubMed (1)

PloS one

MicroRNA-941 Expression in Polymorphonuclear Granulocytes Is Not Related to Granulomatosis with Polyangiitis.

"14-0149 was used in Magnetic cell separation to find that PRTN3 mRNA, KDM6B mRNA, and miR-941 expression levels in PMNs do not differ between GPA patients and healthy controls."
 Authors: Svendsen JB,Baslund B,Cramer EP,Rapin N,Borregaard N,Cowland JB

Species
Human

Dilution
Not Cited

Year
2017

Immunofluorescence (5)

Retrovirology

Toll-like receptor 3 activation selectively reverses HIV latency in microglial cells.

"Published figure using CD14 monoclonal antibody (Product # 14-0149-82) in Immunofluorescence"
 Authors: Alvarez-Carbonell D,Garcia-Mesa Y,Milne S, Das B, Dobrowolski C, Rojas R, Karn J

Species
Not Applicable

Dilution
Not Cited

Year
2017

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

More applications with references on thermofisher.com

ICC (2)

Neu (3)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.