

CD14 Monoclonal Antibody (61D3), APC-eFluor™ 780, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	C. elegans, Non-human primate, Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	61D3
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 nm
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_1834359

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	43 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: This 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 (0.5 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.

APC-eFluor® 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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

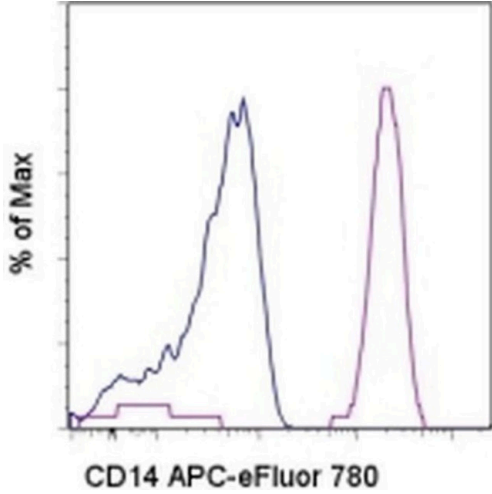
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness

and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD14 Monoclonal Antibody (61D3), APC-eFluor™ 780, eBioscience™



CD14 Antibody (47-0149-41) in Flow

Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control APC-eFluor® 780 (Product # 47-4714-82) (blue histogram) or Anti-Human CD14 APC-eFluor® 780 (purple histogram). Cells in the monocyte gate were used for analysis.

43 References

Flow Cytometry (43)

Cell genomics

Identification of a regulatory pathway governing TRAF1 via an arthritis-associated non-coding variant.

"47-0149-42 was used in Flow Cytometry to reveal that rs7034653, FRA2, and TRAF1 mediate a pathway through which a non-coding functional variant drives risk of inflammatory arthritis in children and adults."

Authors: Wang Q, Martínez-Bonet M, Kim T, Sparks JA, Ishigaki K, Chen X, Sudman M, Aguiar V, Sim S, Hernandez MC, Chiu DJ, Wactor A, Wauford B, Marion MC, Gutierrez-Arcelus M, Bowes J, Eyre S, Nordal E, Prahalad S, Rygg M, Videm V, Raychaudhuri S, Weirauch MT, Langefeld CD, Thompson SD, Nigrovic PA

Year
2023

Species
Human

Nature immunology

Autoantibodies against chemokines post-SARS-CoV-2 infection correlate with disease course.

"47-0149-42 was used in Flow cytometry/Cell sorting to show that given the role of chemokines in orchestrating immune cell trafficking, naturally arising chemokine antibodies may modulate the inflammatory response and thus bear therapeutic potential."

Authors: Muri J, Cecchinato V, Cavalli A, Shanbhag AA, Matkovic M, Biggiogero M, Maida PA, Moritz J, Toscano C, Ghovehroud E, Furlan R, Barbic F, Voza A, De Nadai G, Cervia C, Zurbuchen Y, Taeschler P, Murray LA, Danelon-Sargent G, Moro S, Gong T, Piffaretti P, Bianchini F, Crivelli V, Podešvová L, Pedotti M, Jarrossay D, Sgrignani J, Thelen S, Uhr M, Bernasconi E, Rauch A, Manzo A, Ciurea A, Rocchi MBL, Varani L, Moser B, Bottazzi B, Thelen M, Fallon BA, Boyman O, Mantovani A, Garzoni C, Franzetti-Pellanda A, Uguccioni M, Robbiani DF

Year
2023

Species
Human

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