

# CD14 Monoclonal Antibody (61D3), Alexa Fluor™ 488, 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), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	61D3
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744748

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	16 Publications
Neutralization (Neu)	-	1 Publication

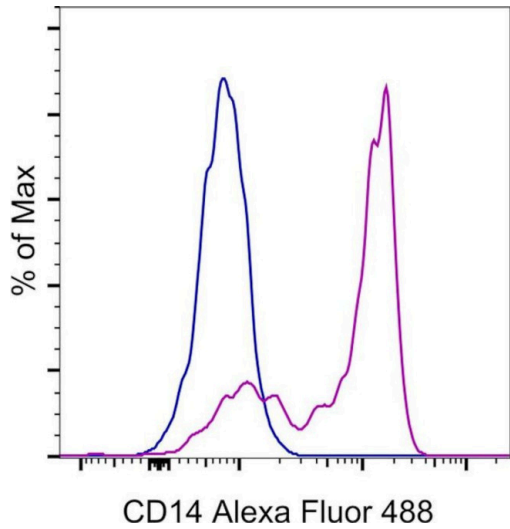
## Product Specific Information

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

**Applications Tested:** This 61D3 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may 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 10<sup>5</sup> to 10<sup>8</sup> cells /test.

**Excitation:** 488 nm; **Emission:** 519 nm; **Laser:** Blue Laser



**CD14 Antibody (53-0149-42) in Flow**  
Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, Alexa Fluor® 488 (Product # 53-4714-82) (blue histogram) or CD14 Monoclonal Antibody, Alexa Fluor® 488 (purple histogram). Cells in the monocyte gate were used for analysis.

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Immunohistochemistry (1)

<p>PloS one</p> <p><b>Biologically active polymers from spontaneous carotenoid oxidation: a new frontier in carotenoid activity.</b></p> <p>"Published figure using CD14 monoclonal antibody (Product # 53-0149-42) in Immunohistochemistry"</p> <p>Authors: Johnston JB,Nickerson JG,Daroszewski J,Mogg TJ,Burton GW</p>	<p>Year</p> <p>2015</p>
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Immunocytochemistry (2)

<p>Nature communications</p> <p><b>Early macrophage response to obesity encompasses Interferon Regulatory Factor 5 regulated mitochondrial architecture remodelling.</b></p> <p>"Published figure using CD14 monoclonal antibody (Product # 53-0149-42) in Immunocytochemistry"</p> <p>Authors: Orliaguet L,Ejlalmanesh T,Humbert A,Ballaire R,Diedisheim M,Julla JB,Chokr D,Cuenco J,Michieletto J,Charbit J,Lindén D,Boucher J,Potier C,Hamimi A,Lemoine S,Blugeon C,Legoix P,Lameiras S,Baudrin LG,Baulande S,Soprani A,Castelli FA,Fenaille F,Riveline JP,Dalmas E,Rieusset J,Gautier JF,Venteclef N,Alzaid F</p>	<p>Year</p> <p>2022</p>
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<p>Scientific reports</p> <p><b>Thrombomodulin regulates monocyte differentiation via PKC and ERK1/2 pathway in vitro and in atherosclerotic artery.</b></p> <p>"Published figure using CD14 monoclonal antibody (Product # 53-0149-42) in Immunocytochemistry"</p> <p>Authors: Tsai CS,Lin YW,Huang CY,Shih CM,Tsai YT,Tsao NW,Lin CS,Shih CC,Jeng H,Lin FY</p>	<p>Year</p> <p>2016</p>
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Flow Cytometry (16)

<p>Frontiers in oncology</p> <p><b>Spontaneous Osteoclastogenesis, a risk factor for bone metastasis in advanced luminal A-type breast cancer patients.</b></p> <p>"Published figure using CD14 monoclonal antibody (Product # 53-0149-42) in Flow Cytometry"</p> <p>Authors: Fernández Vallone V,Borzone FR,Martinez LM,Giorello MB,Choi H,Dimase F,Feldman L,Bordenave RH,Chudzinski-Tavassi AM,Batagelj E,Chasseing NA</p>	<p>Year</p> <p>2023</p>
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Neu (1)

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