

CD14 Monoclonal Antibody (61D3), PE-Cyanine7, eBioscience™

Catalog Number 25-0149-41

Product data sheet

Details	
Size	25 Tests
Host/Isotope	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	61D3
Conjugate	PE-Cyanine7
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!

Species Reactivity	
Species reactivity	Human
Published species	Human, Mouse, Not Applicable
Tested Applications	
Flow Cytometry (Flow)	5 µL (1 µg)/test
Published Applications	
Flow Cytometry (Flow)	See 25 publications below
Immunocytochemistry (ICC/IF)	See 1 publications below

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

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 (1.0 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 10^5 to 10^8 cells/test. 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 (cat. 00-8222) (100 µL of cell sample + 100 µL 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: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser. Filtration: 0.2 µm post-manufacturing filtered.

Background/Target Information

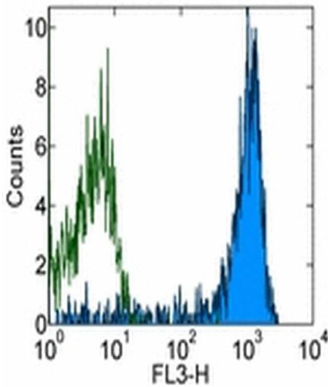
CD14 is a 55 kDa GPI-anchored glycoprotein that is constitutively expressed on the surface of mature monocytes, macrophages, and neutrophils. CD14 also serves as a multifunctional lipopolysaccharide receptor, and is released to the serum both as a secreted and enzymatically cleaved GPI-anchored form. 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.

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**CD14 Antibody (25-0149-41) in Flow**

Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE-Cyanine7 (Product # 25-4714-80) (open histogram) or Anti-Human CD14 PE-Cyanine7 (filled histogram). Cells in the monocyte gate were used for analysis.

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25 Flow Cytometry References

Species / Dilution	Summary
	<p>25-0149 was used in Flow cytometry/Cell sorting to identify exosomal prostaglandin E2 as a driver of CD73 induction, as prostaglandin E2 receptor inhibition significantly reduced exosome-dependent CD73 induction.</p>
Human / Not Cited	<p>Journal of extracellular vesicles ( 2020; 6: )  <b>"Dominant immunosuppression of dendritic cell function by prostate-cancer-derived exosomes."</b>                      Author(s):Salimu J,Webber J,Gurney M,Al-Taei S,Clayton A,Tabi Z                      PubMed Article URL:<a href="http://dx.doi.org/10.1080/20013078.2017.1368823">http://dx.doi.org/10.1080/20013078.2017.1368823</a></p>
	<p>25-0149 was used in Flow cytometry/Cell sorting to analyse the characteristics and constitution of mononuclear phagocyte populations in human kidneys.</p>
Human / 1:200	<p>PloS one ( 2016; 11: )  <b>"The Phenotypic Characterization of the Human Renal Mononuclear Phagocytes Reveal a Co-Ordinated Response to Injury."</b>                      Author(s):Leone DA,Kozakowski N,Kornauth C,Waidacher T,Neudert B,Loeffler AG,Haitel A,Rees AJ,Kain R                      PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0151674">http://dx.doi.org/10.1371/journal.pone.0151674</a></p>
	<p>25-0149-42 was used in Flow cytometry/Cell sorting to investigate whether and how CD4+Foxp3+ regulatory T (Treg) cells residing in the skin regulate percutaneous sensitization in the skin.</p>
Mouse / Not Cited	<p>The Journal of allergy and clinical immunology ( 2019; 144: 1343)  <b>"Percutaneous sensitization is limited by in situ inhibition of cutaneous dendritic cell migration through skin-resident regulatory T cells."</b>                      Author(s):Hanakawa S,Kitoh A,Shibuya R,Dainichi T,Nomura T,Honda T,Egawa G,Otsuka A,Nakajima S,Fujita M,Kabashima K                      PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.jaci.2019.05.033">http://dx.doi.org/10.1016/j.jaci.2019.05.033</a></p>
	<p>FASEB journal : official publication of the Federation of American Societies for Experimental Biology ( 2017; 31: 3084)  <b>"Epithelial chemokine CXCL14 synergizes with CXCL12 &lt;i&gt;via&lt;/i&gt; allosteric modulation of CXCR4."</b>                      Author(s):Collins PJ,McCully ML,Martínez-Muñoz L,Santiago C,Wheeldon J,Caucheteux S,Thelen S,Cecchinato V,Laufer JM,Purvanov V,Monneau YR,Lortat-Jacob H,Legler DF,Uguccioni M,Thelen M,Piguet V,Mellado M,Moser B                      PubMed Article URL:<a href="http://dx.doi.org/10.1096/fj.201700013R">http://dx.doi.org/10.1096/fj.201700013R</a></p>
	<p>25-0149-42 was used in Flow Cytometry to show that GRP78 is expressed on the cell surface of primary acute myeloid leukemia blasts but not hematopoietic progenitor cells.</p>
Human / Not Cited	<p>Nature communications ( 2022; 13: )  <b>"CAR T cells redirected to cell surface GRP78 display robust anti-acute myeloid leukemia activity and do not target hematopoietic progenitor cells."</b>                      Author(s):Hebbar N,Epperly R,Vaidya A,Thanekar U,Moore SE,Umeda M,Ma J,Patil SL,Langfitt D,Huang S,Cheng C,Klco JM,Gottschalk S,Velasquez MP                      PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41467-022-28243-6">http://dx.doi.org/10.1038/s41467-022-28243-6</a></p>
	<p>25-0149 was used in Flow cytometry/Cell sorting to provide novel insight into EDAG in regulation of expansion and survival of human hematopoietic stem/progenitor cells.</p>
Human / Not Cited	<p>PloS one ( 2018; 13: )  <b>"EDAG promotes the expansion and survival of human CD34+ cells."</b>                      Author(s):Zhao K,Zheng WW,Dong XM,Yin RH,Gao R,Li X,Liu JF,Zhan YQ,Yu M,Chen H,Ge CH,Ning HM,Yang XM,Li CY                      PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0190794">http://dx.doi.org/10.1371/journal.pone.0190794</a></p>
	<p>25-0149 was used in Flow cytometry/Cell sorting to demonstrate how a MIFlowCyt-compliant report can be prepared with minimal effort, and yet provide the reader with a much clearer picture of the portrayed FCM experiment and data.</p>
Human / 1:50	<p>Cytometry. Part A : the journal of the International Society for Analytical Cytology ( 2010; 77: 546)  <b>"Identification of B cells through negative gating-An example of the MIFlowCyt standard applied."</b>                      Author(s):Blimkie D,Fortuno ES,Thommai F,Xu L,Fernandes E,Crabtree J,Rein-Weston A,Jansen K,Brinkman RR,Kollmann TR                      PubMed Article URL:<a href="http://dx.doi.org/10.1002/cyto.a.20862">http://dx.doi.org/10.1002/cyto.a.20862</a></p>
	<p>25-0149 was used in Flow cytometry/Cell sorting to show that CD73 expression can be induced by PGE2, cAMP or adenosine on human CD14+ cells.</p>
Human / Not Cited	<p>Oncoimmunology ( 2021; 6: )  <b>"Prostaglandin E&lt;sub&gt;2&lt;/sub&gt;-mediated adenosinergic effects on CD14&lt;sup&gt;+&lt;/sup&gt; cells: Self-amplifying immunosuppression in cancer."</b>                      Author(s):Al-Taei S,Salimu J,Spary LK,Clayton A,Lester JF,Tabi Z                      PubMed Article URL:<a href="http://dx.doi.org/10.1080/2162402X.2016.1268308">http://dx.doi.org/10.1080/2162402X.2016.1268308</a></p>

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Human / Not Cited	<p>Frontiers in immunology ( 2019; 9: )  <b>"The Phenotype of Monocytes in Anterior Uveitis Depends on the HLA-B27 Status."</b>  Author(s):Kasper M,Walscheid K,Laffer B,Bauer D,Busch M,Wildschütz L,Wang B,Losser K,Vogl T,Grajewski RS,Langmann T,Heiligenhaus A  PubMed Article URL:<a href="http://dx.doi.org/10.3389/fimmu.2018.01773">http://dx.doi.org/10.3389/fimmu.2018.01773</a></p>
Human / Not Cited	<p>25-0149 was used in Flow cytometry/Cell sorting to examine the potential link between bone morphogenetic proteins and inflammation in patients with fibrodysplasia ossificans progressiva.</p>
Human / Not Cited	<p>JCI insight ( 2018; 3: )  <b>"NF-B/MAPK activation underlies ACVR1-mediated inflammation in human heterotopic ossification."</b>  Author(s):Barruet E,Morales BM,Cain CJ,Ton AN,Wentworth KL,Chan TV,Moody TA,Haks MC,Ottenhoff TH,Hellman J,Nakamura MC,Hsiao EC  PubMed Article URL:<a href="http://dx.doi.org/10.1172/jci.insight.122958">http://dx.doi.org/10.1172/jci.insight.122958</a></p>
Human / Not Cited	<p>25-0149 was used in Flow cytometry/Cell sorting to provide important insights into BM-MSD dosing and BM-MSD reduction of synovial inflammation and cartilage degradation and provide a highly predictive donor selection criterion that will be critical in translating MSD therapy for osteoarthritis.</p>
Human / Not Cited	<p>Stem cells translational medicine ( 2019; 8: 746)  <b>"Bone Marrow Mesenchymal Stromal Cell Treatment in Patients with Osteoarthritis Results in Overall Improvement in Pain and Symptoms and Reduces Synovial Inflammation."</b>  Author(s):Chahal J,Gómez-Aristizábal A,Shestopaloff K,Bhatt S,Chaboureaud A,Fazio A,Chisholm J,Weston A,Chiovitti J,Keating A,Kapoor M,Ogilvie-Harris DJ,Syed KA,Gandhi R,Mahomed NN,Marshall KW,Sussman MS,Naraghi AM,Viswanathan S  PubMed Article URL:<a href="http://dx.doi.org/10.1002/sctm.18-0183">http://dx.doi.org/10.1002/sctm.18-0183</a></p>
Human / 1:100	<p>25-0149 was used in Flow cytometry/Cell sorting to describe a novel platform that enables the interrogation and screening of APC responses to TLR ligands.</p>
Human / 1:100	<p>Journal of immunological methods ( 2008; 336: 183)  <b>"Polychromatic flow cytometric high-throughput assay to analyze the innate immune response to Toll-like receptor stimulation."</b>  Author(s):Jansen K,Blimkie D,Furlong J,Hajjar A,Rein-Weston A,Crabtree J,Reikie B,Wilson C,Kollmann T  PubMed Article URL:<a href="http://dx.doi.org/10.1016/j.jim.2008.04.013">http://dx.doi.org/10.1016/j.jim.2008.04.013</a></p>
Human / 1:25	<p>25-0149 was used in Flow cytometry/Cell sorting to show that in patients with atherosclerosis, activation of innate immune cells occurs at the level of myeloid progenitors, which adds exciting opportunities for novel treatment strategies.</p>
Human / 1:25	<p>eLife ( 2020; 9: )  <b>"Reprogramming of bone marrow myeloid progenitor cells in patients with severe coronary artery disease."</b>  Author(s):Noz MP,Bekkering S,Groh L,Nielen TM,Lamfers EJ,Schlitzer A,El Messaoudi S,van Royen N,Huys EH,Preijers FW,Smeets EM,Aarntzen EH,Zhang B,Li Y,Bremmers ME,van der Velden WJ,Dolstra H,Joosten LA,Gomes ME,Netea MG,Riksen NP  PubMed Article URL:<a href="http://dx.doi.org/10.7554/eLife.60939">http://dx.doi.org/10.7554/eLife.60939</a></p>
Human / Not Cited	<p>25-0149 was used in Flow cytometry/Cell sorting to underline the ILC2/IL-13 axis as a targetable pathway to curtail the M-MDSC compartment and improve bladder cancer treatment.</p>
Human / Not Cited	<p>The Journal of clinical investigation ( 2017; 127: 2916)  <b>"ILC2-modulated T cell-to-MDSC balance is associated with bladder cancer recurrence."</b>  Author(s):Chevalier MF,Trabanelli S,Racle J,Salomé B,Cesson V,Gharbi D,Bohner P,Domingos-Pereira S,Dartiguenave F,Fritschi AS,Speiser DE,Rentsch CA,Gfeller D,Jichlinski P,Nardelli-Haeffliger D,Jandus C,Derré L  PubMed Article URL:<a href="http://dx.doi.org/10.1172/JCI89717">http://dx.doi.org/10.1172/JCI89717</a></p>
Human / Not Cited	<p>25-0149 was used in Flow cytometry/Cell sorting to investigate whether unbalance production of inflammatory mediators in response to L. braziliensis infection contributes to disease severity, showing that CXCL10 is produced in response to infection.</p>
Human / Not Cited	<p>Infection and immunity ( 2010; 78: 301)  <b>"CXCL10 production by human monocytes in response to Leishmania braziliensis infection."</b>  Author(s):Vargas-Inchaustegui DA,Hogg AE,Tulliano G,Llanos-Cuentas A,Arevalo J,Endsley JJ,Soong L  PubMed Article URL:<a href="http://dx.doi.org/10.1128/IAI.00959-09">http://dx.doi.org/10.1128/IAI.00959-09</a></p>
Human / Not Cited	<p>25-0149 was used in Flow cytometry/Cell sorting to investigate a strategy for an HCMV vaccine that aims at the simultaneous activation of innate and adaptive immune responses.</p>
Human / Not Cited	<p>PLoS pathogens ( 2016; 12: )  <b>"Activation of Innate and Adaptive Immunity by a Recombinant Human Cytomegalovirus Strain Expressing an NKG2D Ligand."</b>  Author(s):Tomi A,Varanasi PR,Golemac M,Mali S,Riese P,Borst EM,Mischak-Weissinger E,Guzmán CA,Krmpoti A,Jonji S,Messerle M  PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.ppat.1006015">http://dx.doi.org/10.1371/journal.ppat.1006015</a></p>

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	25-0149 was used in Flow cytometry/Cell sorting to characterise the intronic polyadenylation of immune cell transcriptomes.
Human / Not Cited	<p>Nature communications ( 2018; 9: )</p> <p><b>"Widespread intronic polyadenylation diversifies immune cell transcriptomes."</b></p> <p>Author(s):Singh I, Lee SH, Sperling AS, Samur MK, Tai YT, Fulciniti M, Munshi NC, Mayr C, Leslie CS</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41467-018-04112-z">http://dx.doi.org/10.1038/s41467-018-04112-z</a></p>
	25-0149 was used in Flow cytometry/Cell sorting to study the pattern of macrophage polarisation and monocyte differentiation in breast cancer.
Human / Not Cited	<p>BMC cancer ( 2018; 18: )</p> <p><b>"Altered monocyte differentiation and macrophage polarization patterns in patients with breast cancer."</b></p> <p>Author(s):Hung CH, Chen FM, Lin YC, Tsai ML, Wang SL, Chen YC, Chen YT, Hou MF</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1186/s12885-018-4284-y">http://dx.doi.org/10.1186/s12885-018-4284-y</a></p>
	Acta neuropathologica ( 2017; 133: 61)
Human / Not Cited	<p><b>"Mir-223 regulates the number and function of myeloid-derived suppressor cells in multiple sclerosis and experimental autoimmune encephalomyelitis."</b></p> <p>Author(s):Cantoni C, Cignarella F, Ghezzi L, Mikesell B, Bollman B, Berrien-Elliott MM, Ireland AR, Fehniger TA, Wu GF, Piccio L</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1007/s00401-016-1621-6">http://dx.doi.org/10.1007/s00401-016-1621-6</a></p>
	25-0149 was used in Flow cytometry/Cell sorting to develop a microfabricated biochip that enumerates CD4+ T lymphocytes from leukocyte populations, with potential applications in quantitative HIV/AIDS diagnostics.
Human / Not Cited	<p>Lab on a chip ( 2011; 11: 1437)</p> <p><b>"A microfabricated electrical differential counter for the selective enumeration of CD4+ T lymphocytes."</b></p> <p>Author(s):Watkins NN, Sridhar S, Cheng X, Chen GD, Toner M, Rodriguez W, Bashir R</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1039/c0lc00556h">http://dx.doi.org/10.1039/c0lc00556h</a></p>
	25-0149 was used in Flow cytometry/Cell sorting to investigate whether extracellular galectin-3 could participate in the phagocytic clearance of apoptotic neutrophils by macrophages.
Human / Not Cited	<p>Glycobiology ( 2009; 19: 16)</p> <p><b>"Galectin-3 functions as an opsonin and enhances the macrophage clearance of apoptotic neutrophils."</b></p> <p>Author(s):Karlsson A, Christenson K, Matlak M, Björstad A, Brown KL, Telemo E, Salomonsson E, Leffler H, Bylund J</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1093/glycob/cwn104">http://dx.doi.org/10.1093/glycob/cwn104</a></p>
	25-0149 was used in Flow cytometry/Cell sorting to investigate the combined mechanism of action of MSCs and hyaluronic acid.
Human / Not Cited	<p>PloS one ( 2016; 11: )</p> <p><b>"A Systematic Study of the Effect of Different Molecular Weights of Hyaluronic Acid on Mesenchymal Stromal Cell-Mediated Immunomodulation."</b></p> <p>Author(s):Gómez-Aristizábal A, Kim KP, Viswanathan S</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1371/journal.pone.0147868">http://dx.doi.org/10.1371/journal.pone.0147868</a></p>
	25-0149 was used in Flow cytometry/Cell sorting to explore the effects of low-grade inflammation on the activation and distribution of different monocyte subsets.
Human / Not Cited	<p>Scientific reports ( 2016; 6: )</p> <p><b>"Differential in vivo activation of monocyte subsets during low-grade inflammation through experimental endotoxemia in humans."</b></p> <p>Author(s):Thaler B, Hohensinner PJ, Krychtiuk KA, Matzneller P, Koller L, Brekalo M, Maurer G, Huber K, Zeitlinger M, Jilma B, Wojta J, Speidl WS</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/srep30162">http://dx.doi.org/10.1038/srep30162</a></p>
	25-0149 was used in Flow cytometry/Cell sorting to compare the ability of a selected number of molecules to modulate the pro-inflammatory phenotype of lipopolysaccharide (LPS) and interferon- (IFN-) -stimulated human monocyte-derived DCs towards an anti-inflammatory or regulatory phenotype, including Ascaris suum body fluid [helminth pseudocoelomic fluid (PCF)], the metabolites succinate and butyrate, and the type 2 cytokines thymic stromal lymphopoietin and interleukin-25.
Human / Not Cited	<p>Immunology ( 2020; 159: 322)</p> <p><b>"Body fluid from the parasitic worm Ascaris suum inhibits broad-acting pro-inflammatory programs in dendritic cells."</b></p> <p>Author(s):Arora P, Moll JM, Andersen D, Workman CT, Williams AR, Kristiansen K, Brix S</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1111/imm.13151">http://dx.doi.org/10.1111/imm.13151</a></p>
	25-0149 was used in Flow cytometry/Cell sorting to investigate the interactions between cancer stem cells and their surrounding microenvironment.
Human / Not Cited	<p>Nature cell biology ( 2014; 16: 1105)</p> <p><b>"A breast cancer stem cell niche supported by juxtacrine signalling from monocytes and macrophages."</b></p> <p>Author(s):Lu H, Clauser KR, Tam WL, Fröse J, Ye X, Eaton EN, Reinhardt F, Donnenberg VS, Bhargava R, Carr SA, Weinberg RA</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.1038/ncb3041">http://dx.doi.org/10.1038/ncb3041</a></p>

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1 Immunocytochemistry References

Species / Dilution	Summary
Human / Not Cited	25-0149 was used in Immunofluorescence to study how the NAE-PPAR signaling system is impaired during active UC and 5-ASA/glucocorticoids treatment restored its normal expression.
	PloS one ( 2012; 7: )
	<b>"Ulcerative colitis impairs the acylethanolamide-based anti-inflammatory system reversal by 5-aminosalicylic acid and glucocorticoids."</b> Author(s):Suárez J,Romero-Zerbo Y,Márquez L,Rivera P,Iglesias M,Bermúdez-Silva FJ,Andreu M,Rodríguez de Fonseca F PubMed Article URL: <a href="http://dx.doi.org/10.1371/journal.pone.0037729">http://dx.doi.org/10.1371/journal.pone.0037729</a>

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