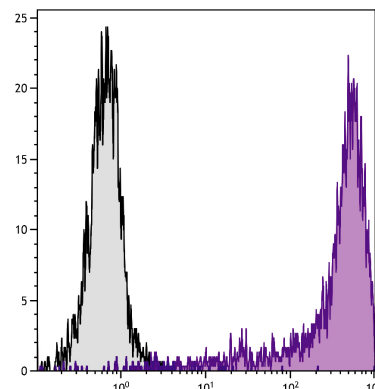




Mouse Anti-Human CD14

Cat. No.	Format	Size
9561-01	Purified (UNLB)	0.1 mg
9561-02	Fluorescein (FITC)	100 tests
9561-02S	Fluorescein (FITC)	25 tests
9561-08	Biotin (BIOT)	100 tests
9561-09	R-phycoerythrin (PE)	100 tests
9561-09S	R-phycoerythrin (PE)	25 tests
9561-11	Allophycocyanin (APC)	100 tests
9561-11S	Allophycocyanin (APC)	25 tests
9561-13	Spectral Red® (SPRD)	100 tests
9561-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
9561-16	R-phycoerythrin-Cyanine 5.5 (PE/CY5.5)	100 tests
9561-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	100 tests
9561-18	Allophycocyanin-Cyanine 5.5 (APC/CY5.5)	100 tests
9561-19	Allophycocyanin-Cyanine 7 (APC/CY7)	100 tests
9561-26	Pacific Blue™ (PACBLU)	100 tests
9561-27	Alexa Fluor® 700 (AF700)	100 tests
9561-30	Alexa Fluor® 488 (AF488)	100 tests
9561-31	Alexa Fluor® 647 (AF647)	100 tests



Human peripheral blood monocytes were stained with Mouse Anti-Human CD14-PE/CY5.5 (SB Cat. No. 9561-16).

Overview

Clone	61D3
Isotype	Mouse (BALB/c) IgG _{1κ}
Immunogen	Human peripheral monocytes
Specificity	Human/Cynomolgus/Canine/Hooded Seal CD14; Mr 55 kDa
Alternate Name(s)	LPS-R, LPS receptor, gp55
Workshop	N/A

Description

CD14 is a 55 kDa glycosphosphatidylinositol (GPI)-anchored single chain glycoprotein. It is expressed on monocytes, macrophages, dendritic cells, and Langerhans cells. It is also weakly expressed on neutrophils. CD14 appears to be involved in clearance of gram-negative bacteria via its high affinity binding to LPS-LPB complexes.

Applications

FC – Quality tested ^{3,6-8}
 IHC-FS – Reported in literature ⁴
 ICC – Reported in literature ^{3,5}
 WB – Reported in literature ³
 ELISA – Reported in literature ³
 Cyto – Reported in literature ¹
 Block – Reported in literature ^{2,3}
 Sep – Reported in literature ⁹

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 µg/10 ⁶ cells
	FITC, BIOT, PE, APC, SPRD, PE/CY5.5, PE/CY7, APC/CY5.5, APC/CY7, PACBLU, AF488, AF647, and AF700 conjugates	10 µL/10 ⁶ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- The Spectral Red® (SPRD), R-phycoerythrin-Cyanine 5.5 (PE/CY5.5), R-phycoerythrin-Cyanine 7 (PE/CY7), allophycocyanin-Cyanine 5.5 (APC/CY5.5), and allophycocyanin-Cyanine 7 (APC/CY7) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), Alexa Fluor® 700 (AF700), and Pacific Blue™ (PACBLU) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

1. Ugolini V, Nunez G, Smith RG, Stastny P, Capra JD. Initial characterization of monoclonal antibodies against human monocytes. *Proc Natl Acad Sci USA*. 1980;77:6764-8. (Immunogen, Cyto)
2. Flora PK, Gregory CD. Recognition of apoptotic cells by human macrophages: inhibition by a monocyte/macrophage-specific monoclonal antibody. *Eur J Immunol*. 1994;24:2625-32. (Block)
3. Devitt A, Moffatt OD, Raykundalia C, Capra JD, Simmons DL, Gregory CD. Human CD14 mediates recognition and phagocytosis of apoptotic cells. *Nature*. 1998;392:505-9. (Block, WB, FC, ELISA, ICC)
4. Beckstead JH, Wood GS, Fletcher V. Evidence for the origin of Kaposi's sarcoma from lymphatic endothelium. *Am J Pathol*. 1985;119:294-300. (IHC-FS)
5. Larsen AK, Nymo IH, Boysen P, Tryland M, Godfroid J. Entry and elimination of marine mammal *Brucella* spp. by hooded seal (*Cystophora cristata*) alveolar macrophages in vitro. *PLoS One*. 2013;8(7):e70186. (ICC, Hooded Seal Reactivity)
6. Pilling D, Vakili V, Gomer RH. Improved serum-free culture conditions for the differentiation of human and murine fibrocytes. *J Immunol Methods*. 2009;351:62-70. (FC)
7. Carter AS, Cerundolo L, Koo DD, Rust NA, Morris PJ, Fuggle SV. Cross-species reactivity of a panel of antibodies with monkey and porcine tissue. *Xenotransplantation*. 1999;6:123-30. (FC, Cynomolgus Reactivity)
8. de Amorim IF, da Silva SM, Figueiredo MM, Moura EP, de Castro RS, de Souza Lima TK, et al. Toll receptors type-2 and CR3 expression of canine monocytes and its correlation with immunohistochemistry and xenodiagnosis in visceral leishmaniasis. *PLoS One*. 2011;6(11):e27679. (FC, Canine Reactivity)
9. Lindsey JW, Hatfield LM. Epstein-Barr virus and multiple sclerosis: cellular immune response and cross-reactivity. *J Neuroimmunol*. 2010;229:238-42. (Sep)

Spectral Red® is a registered trademark of Southern Biotechnology Associates, Inc.

Spectral Red® is a PE/CY5 tandem conjugate.

Cy™ is a trademark of Cytiva or one of its subsidiaries.

Alexa Fluor® 488, 647, 700 and Pacific Blue™ are provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation), and Southern Biotechnology Associates, Inc., and the manufacture, use, sale or import of this product may be subject to one or more U.S. patents, pending applications, and corresponding non-U.S. equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for any other use, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, USA, Tel: (541) 465-8300. Fax: (541) 335-0504.