

anti-human CD14 (no azide)

monoclonal antibody 18D11 to human CD14

Cat-No: **21620140**

100 µg in 100 µl

Clone: 18D11

Specificity:

The 18D11 (1,2,3,4,5,6) antibody recognizes the CD14 antigen (LPS receptor) expressed strongly on the surface of monocytes, weakly on the surface of granulocytes, macrophages, dendritic cells and B-cells (7). On flow cytometry it stains > 90% of human peripheral blood monocytes.

The antibody is LPS neutralising. This antibody has been studied at the 7. International Workshop on Human Leucocyte Differentiation Antigens (8).

Isotype subclass: Mouse monoclonal IgG1

Physical state: Liquid

Buffer/Additives/Preservative: PBS (sterile), (pH 7.4)

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions:

Aliquot and store at -20°C. Avoid freeze/thaw cycles. Should be handled under aseptic conditions.

Application:

The 18D11 antibody is well suited for detection of Cd14 in flow cytometry and in frozen and parafin embedded tissue sections.

References:

1. B. Dybdahl et al., Inflammatory Response After Open Heart Surgery Release of Heat-Shock Protein 70 and Signaling Through Toll-Like Receptor-4, *Circulation*. 105:685 (2002)
2. T. E. Mollnes et al., Essential role of the C5a receptor in E coli-included oxidative burst and phagocytosis revealed by a novel lepirudin-based human whole blood model of inflammation, *Blood*, 100(5):1869-77 (2002 Sep.1)
3. E.A. Ellingsen et al., Induction of cytokine produktion in human T-cells and monocytes by highly purified lipoteichoic acid: involvement of Toll-like receptors and CD14, *Med Sci Monit*, 8(5): BR149-156 (2002)
4. J. Wang et al., Peptidoglycan primes for LPS-induced release of proinflammatory cytokines in whole human blood, *Shock*, 16(3):178-82 (2001 Sep)
5. J. Wang et al., Involvement of CD14 and toll-like receptors in activation or human monocytes by *Aspergillus fumigatus* hyphae, *Infect Immun.*, 69(4):2402-6 (2001 Apr)
6. J. Wang et al., Peptidoglycan and lipoteichoic acid from *Staphylococcus aureus* induce tumor necrosis factor alpha, interleucin 6 (IL6), and IL-10 production in both T cells and monocytes in a human whole blood model, *Infect Immun.*, 68(7):3965-70 (2000, Jul)
7. Barclay, Brown et al., *The Leucocyte Antigen FactsBook*, 2nd edition, Harcourt Brace & Company, London, (1997)
8. D. Mason, D. et al. (eds), *Leucocyte Typing 7*, in press, Oxford University Press, Oxford, U.K., 2002

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