

## anti-human CD14 no azide

### monoclonal antibody 18D11 to human CD14

Cat-No: **21620140**

100 µg in 100 µl

**Clone:** 18D11

**Specificity:** The 18D11 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. 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.

**Isotype subclass:** Mouse monoclonal IgG1

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS (sterile), pH 7.2

**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:** functional application

#### References:

1. B. Dybdahl et al., Circulation. 105:685 (2002)
2. T. E. Mollnes et al., Blood, 100(5):1869-77 (2002 Sep.1)
3. E.A. Ellingsen et al, Med Sci Monit, 8(5): BR149-156 (2002)
4. J. Wang et al., Shock, 16(3):178-82 (2001 Sep)

**Background:** CD14 is a 55 kDa GPI-anchored glycoprotein, constitutively expressed on the surface of mature monocytes, macrophages, and neutrophils, where serves as a multifunctional lipopolysaccharide receptor; it is also 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 is able to discriminate slight structural differences between lipopolysaccharides and is important for neutralization of serum allochthonous lipopolysaccharides by reconstituted lipoprotein particles. CD14 affects allergic, inflammatory and infectious processes.

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