

Product datasheet for **SM3009APC**

CD14 Mouse Monoclonal Antibody [Clone ID: MEM-18]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-18
Applications:	FC, WB
Recommended Dilution:	Suitable for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A crude mixture of human urinary proteins precipitated by ammonium sulphate from the urine of a patient suffering from proteinuria
Specificity:	The antibody MEM-18 reacts with CD14, a 53-55 kDa GPI (glycosylphosphatidylinositol)-linked membrane glycoprotein expressed on monocytes, macrophages and weakly on granulocytes; also expressed by most tissue macrophages. In human, the epitope recognized by MEM-18 is located between amino acids 57-64.
Formulation:	Phosphate buffered saline (PBS) solution containing 15mM sodium azide Label: APC State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Label: Conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.
Conjugation:	APC
Storage:	Store the antibody in the dark at 2-8°C. Do Not freeze! Avoid prolonged exposure to light.
Stability:	Shelf life: One year from despatch.
Gene Name:	CD14 molecule
Database Link:	Entrez Gene 929 Human P08571



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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 lipo-polysaccharide-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 lipo-polysaccharides by reconstituted lipoprotein particles. CD14 affects allergic, inflammatory and infectious processes.

Synonyms:

CD14

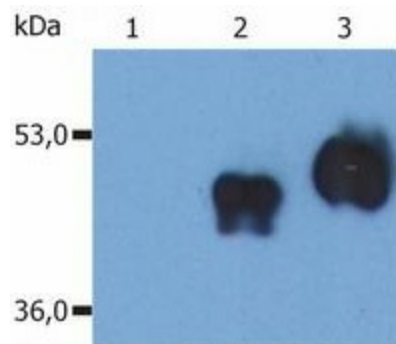
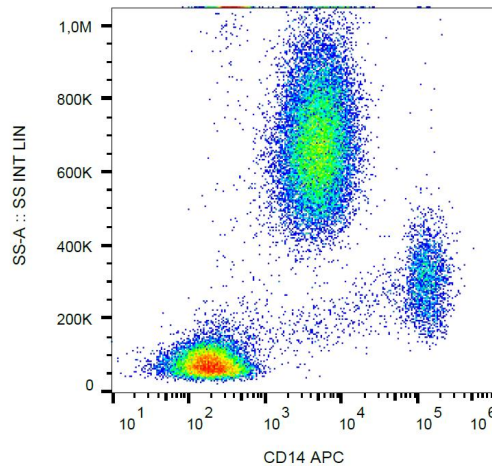
Product images:


Fig. 1. Western Blotting analysis (non-reducing conditions) of over-expressed human CD14 using anti-CD14 (MEM-18). Lane 1: whole cell lysate HEK 293 transfected with empty vector; Lane 2: tissue culture supernatant collected after cultivation of HEK 293 transfected with human CD14 cDNA; Lane 3: whole cell lysate of HEK 293 transfected with human CD14 cDNA



Surface staining of human peripheral blood leukocytes using anti-human CD14 (clone MEM-18) APC.